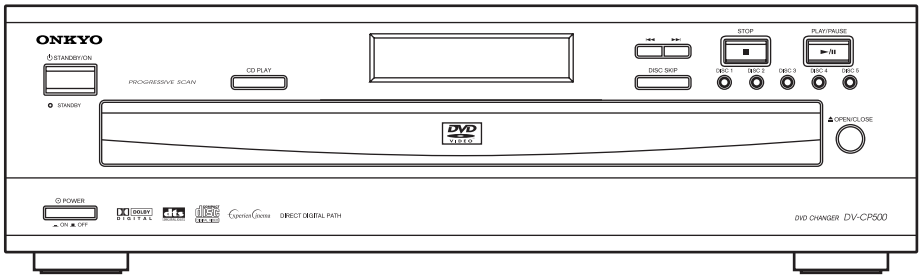
Ref. No. 3734
072002

ONKYO SERVICE MANUAL

DVD CHANGER
MODEL DV-CP500



Black model

BMDD	120V AC, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

THE MARK ⚠ FOUND ON SOME COMPONENT PARTS INDICATES THE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK.
WHEN REPLACING, BE SURE TO USE PARTS OF IDENTICAL DESIGNATION.
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO®
IMAGINATIVE SIGHT & SOUND

SPECIFICATIONS

DVD Changer

Power supply	AC 120 V, 60 Hz
Power consumption	20 W
Weight	15.4 lbs
External dimensions	17 1/8" x 5 1/16" x 16 15/16" (W/H/D)
Signal system	NTSC
Frequency range (digital audio)	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 42 kHz
Signal-to-noise ratio (digital audio)	More than 90 dB
Audio dynamic range (digital audio)	More than 95 dB
Harmonic distortion (digital audio)	Less than 0.005 %
Wow and flutter	Below measurable level
Operating conditions	Temperature: 5 C to 35 C (41 F to 95 F), Operation status: Horizontal

Outputs

Video output	1.0 V (p-p), 75 ohm, negative sync., pin jack x 1
S-video output	(Y) 1.0 V (p-p), 75 ohm, negative sync. (C) 0.286 V (p-p), 75 ohm, Mini DIN 4-pin x 1
Component video output	(Y) 1.0 V (p-p), 75 ohm, negative sync., pin jack x 1 (P_B)/(P_R) 0.7 V (p-p), 75 ohm, pin jack x 2
Audio output (digital output Optical)	Optical connecter x1
Audio output (digital output Coaxial)	0.5 V (p-p), 75 ohm, pin jack x 1
Audio output (analog output)	2.0 V (rms), 320 ohm, pin jack (L, R) x 2

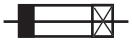
Specifications and features are subject to change without notice.

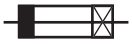
SERVICE PROCEDURE

PRECAUTIONS

1. Ground for the work-desk.
Place a conductive sheet such as a sheet of copper (with impedance lower than 10M ohm) on the work-desk and place the set on the conductive sheet so that the chassis.
2. Grounding for the test equipments and tools.
Test equipments and toolings should be grounded in order that their ground level is the same the ground of the power source.
3. Grounding for the human body.
Be sure to put on a wrist-strap for grounding whose other end is grounded.
Be particularly careful when the workers wear synthetic fiber clothes, or air is dry.
4. Select a soldering iron that permits no leakage and have the tip of the iron well-grounded.
5. Do not check the laser diode terminals with the probe of a circuit tester or oscilloscope.

1. Replacing the fuses


This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse , For fuse rating, refer to the marking adjust to the symbol.

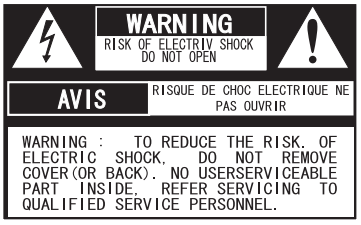

Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

REF.NO.	PART NO.	DESCRIPTION
F1	SR-5, T 2A ⚠	250VCA T 2.0A

2. Safety-check out

(Only U.S.A. model)
After correcting the original service problem perform the following safety check before releasing the set to the customer
Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel.
Specifications: More than 10M ohm at 500V

LASER CAUTION


WARNING
RISK OF ELECTRIV SHOCK
DO NOT OPEN
AVIS
RISQUE DE CHOC ELECTRIQUE NE
PAS OUVRIR
WARNING : TO REDUCE THE RISK. OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO USERSERVICEABLE PART INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

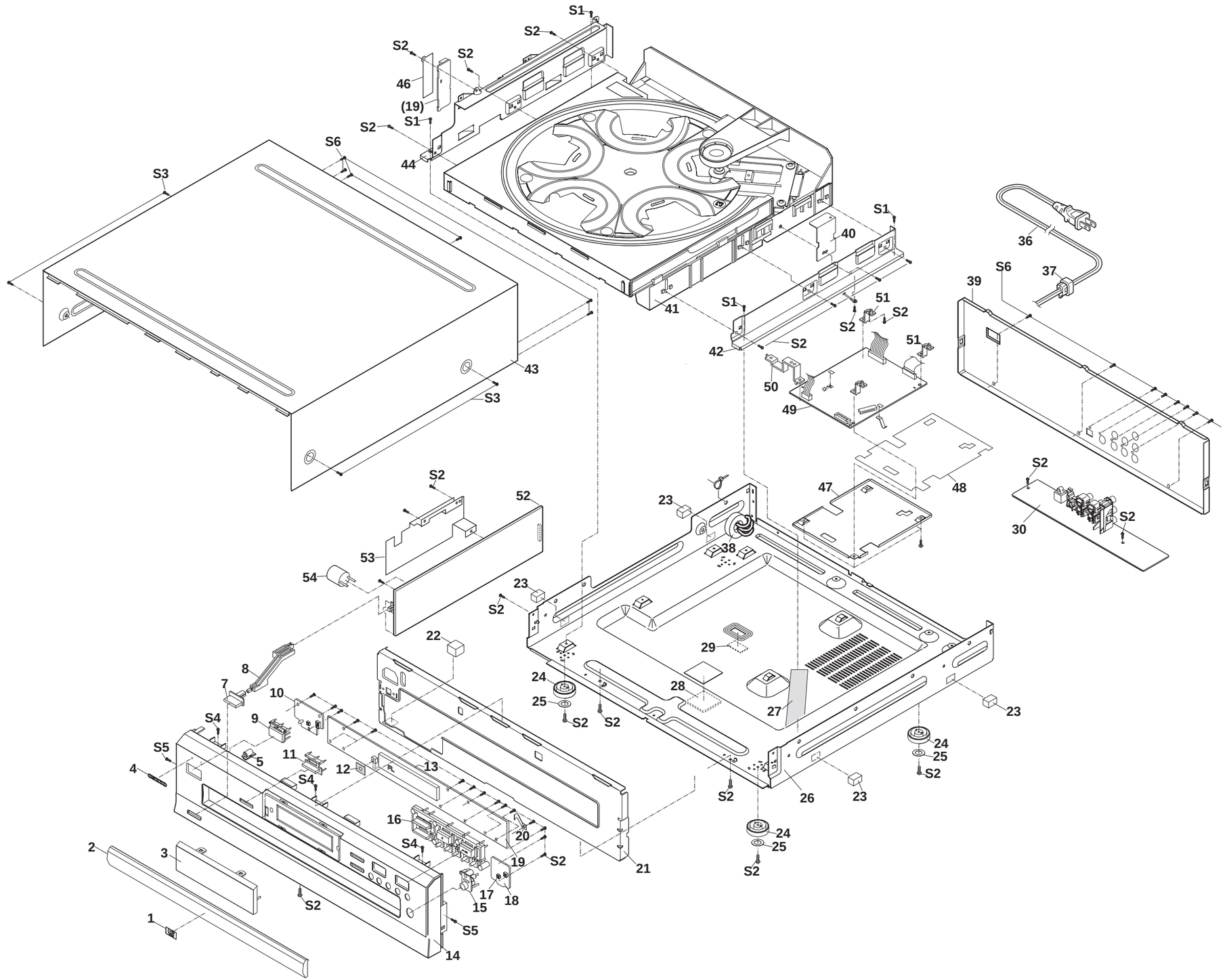
ATTENTION : POUR EVITER LES CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DA LA FICHE DANS LA BORNE CORRESPONDANTE DA LA PRISE ET POUSSER JUSQU' AU FOND.

Initialization of setup

1. Press the "CD PLAY" and "DISC 3" key to the same timing on the front panel.
   You will see that the program is updated by watching the version in the FL tube.
2. Push the power switch.

EXPLODED VIEW

Chassis

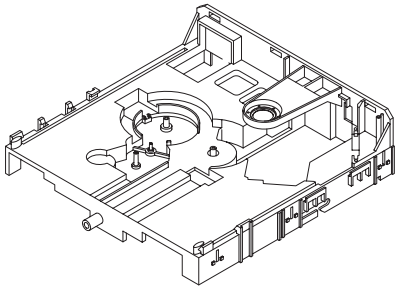


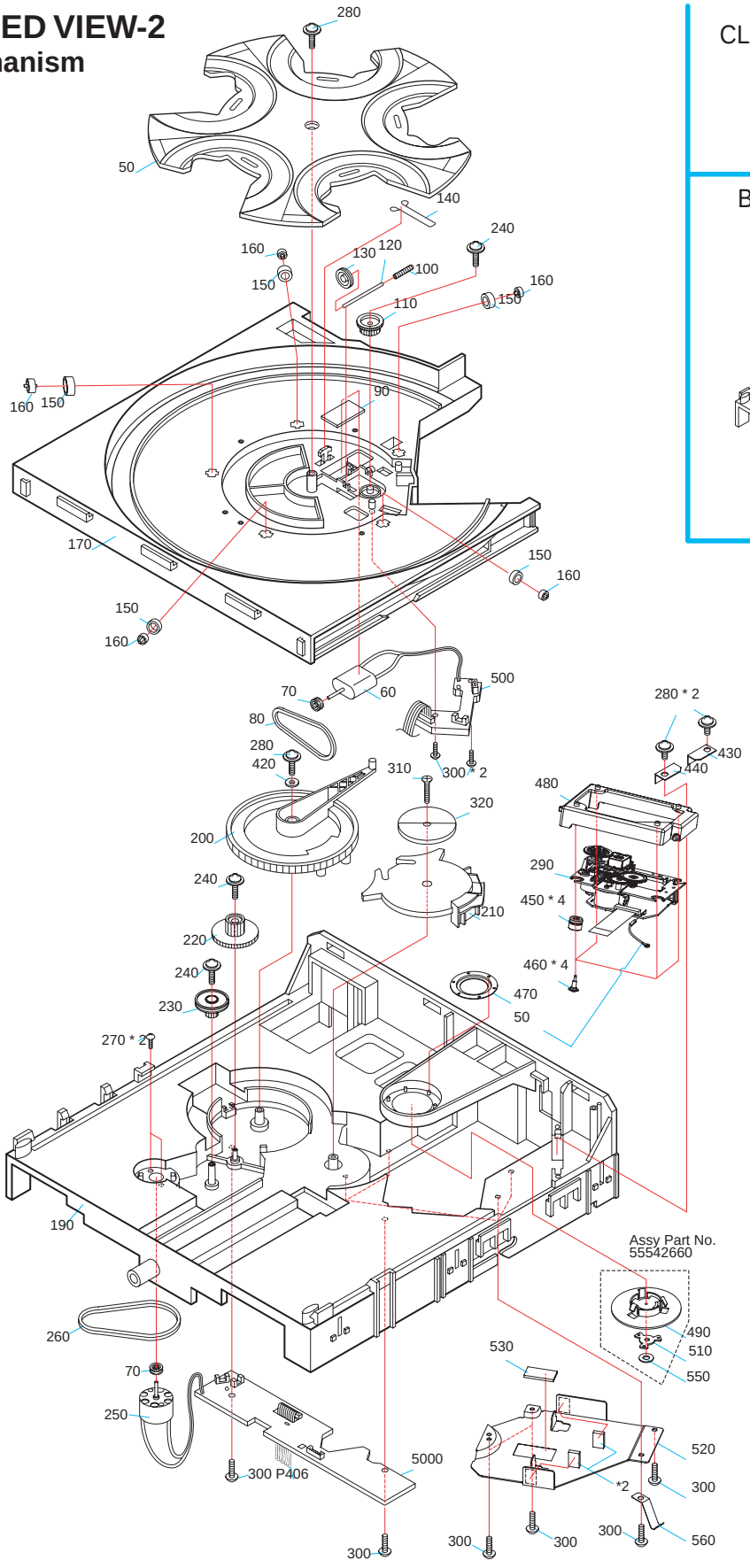
EXPLODED VIEW-2

DVD Mechanism

CLAMPER DVD ASS'Y
Part No. 55542660

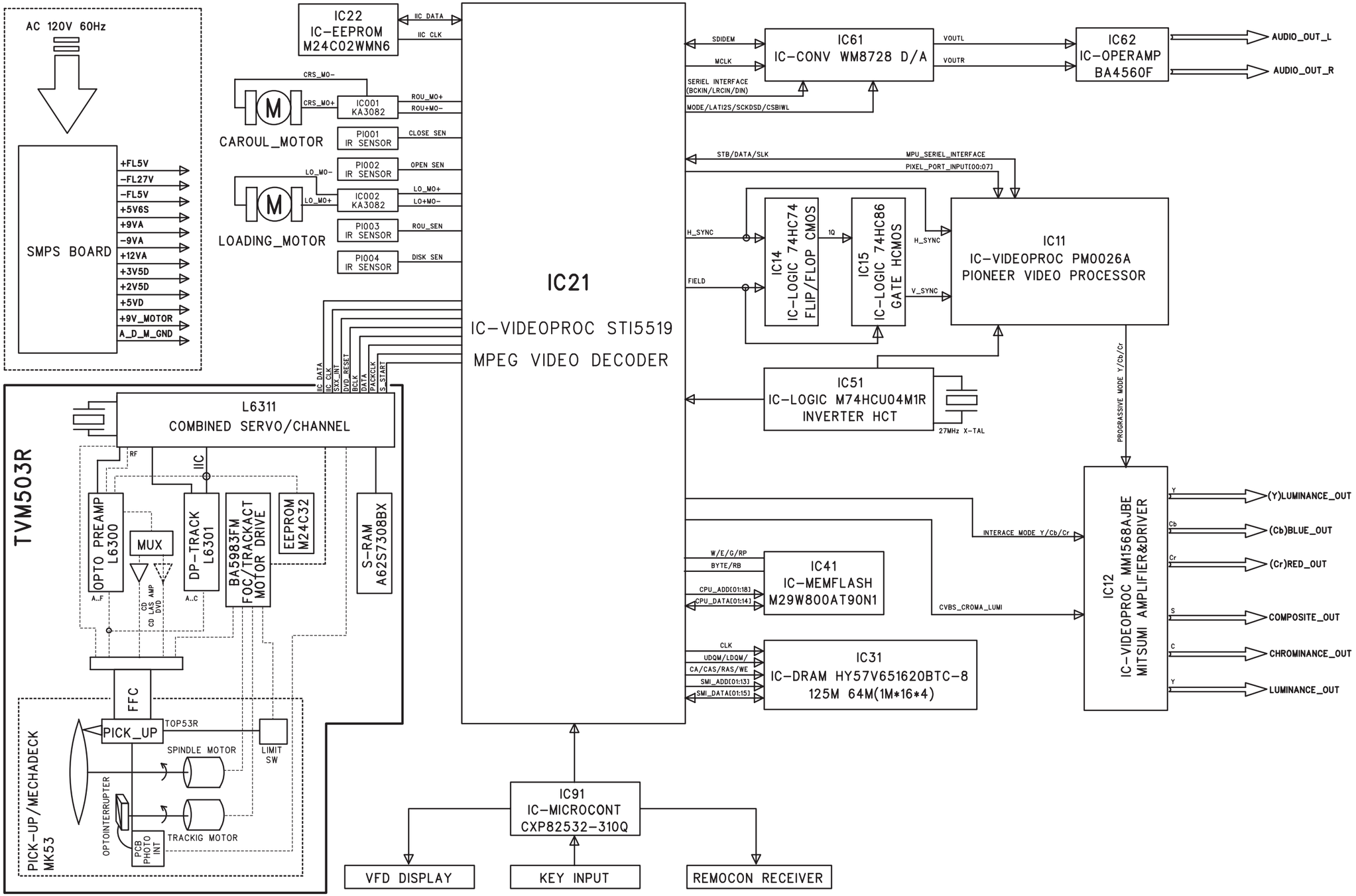
BASE ASS'Y - CDM5G
Part No.55542650





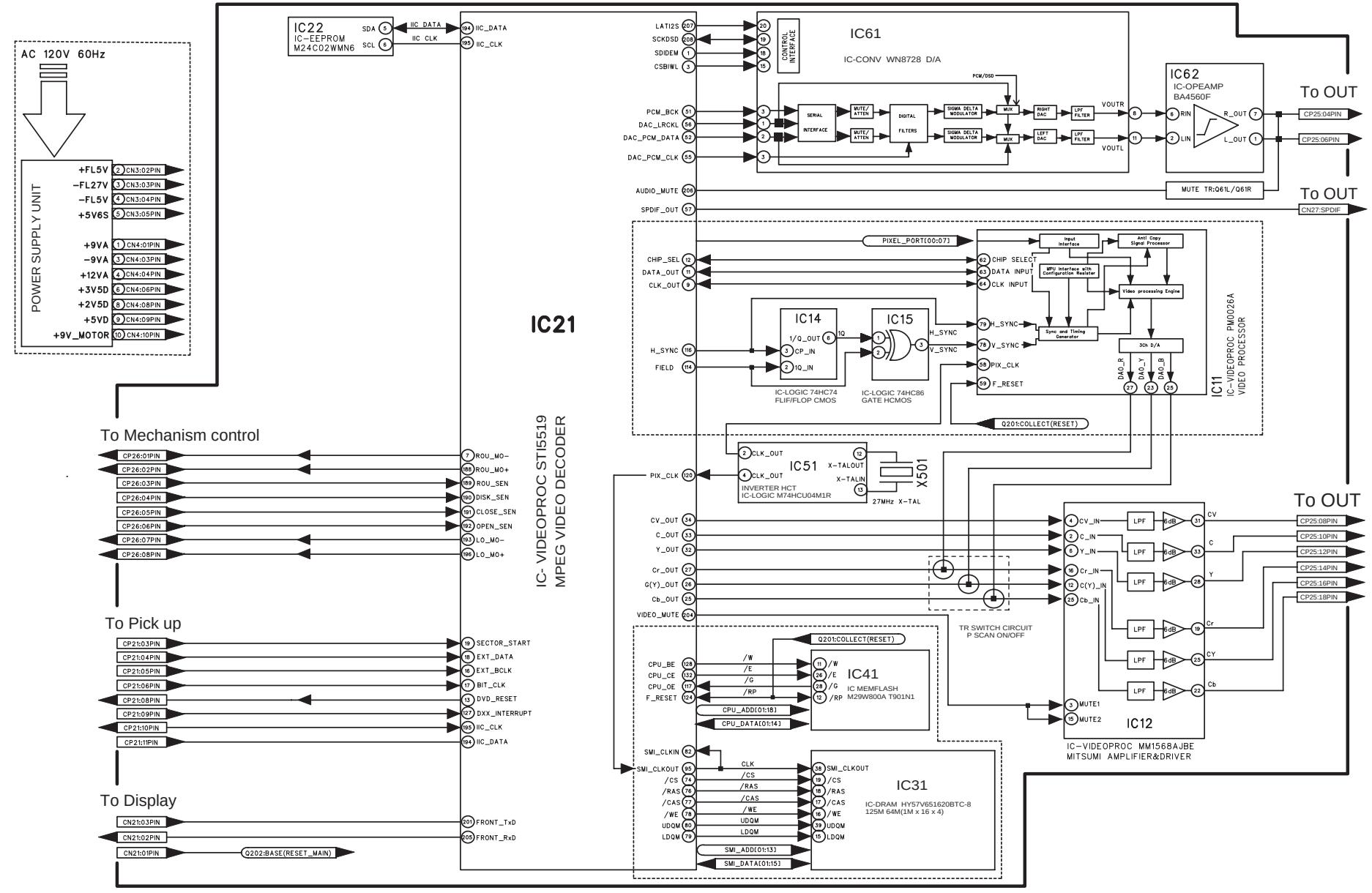
BLOCK DIAGRAM-0

OVERALL



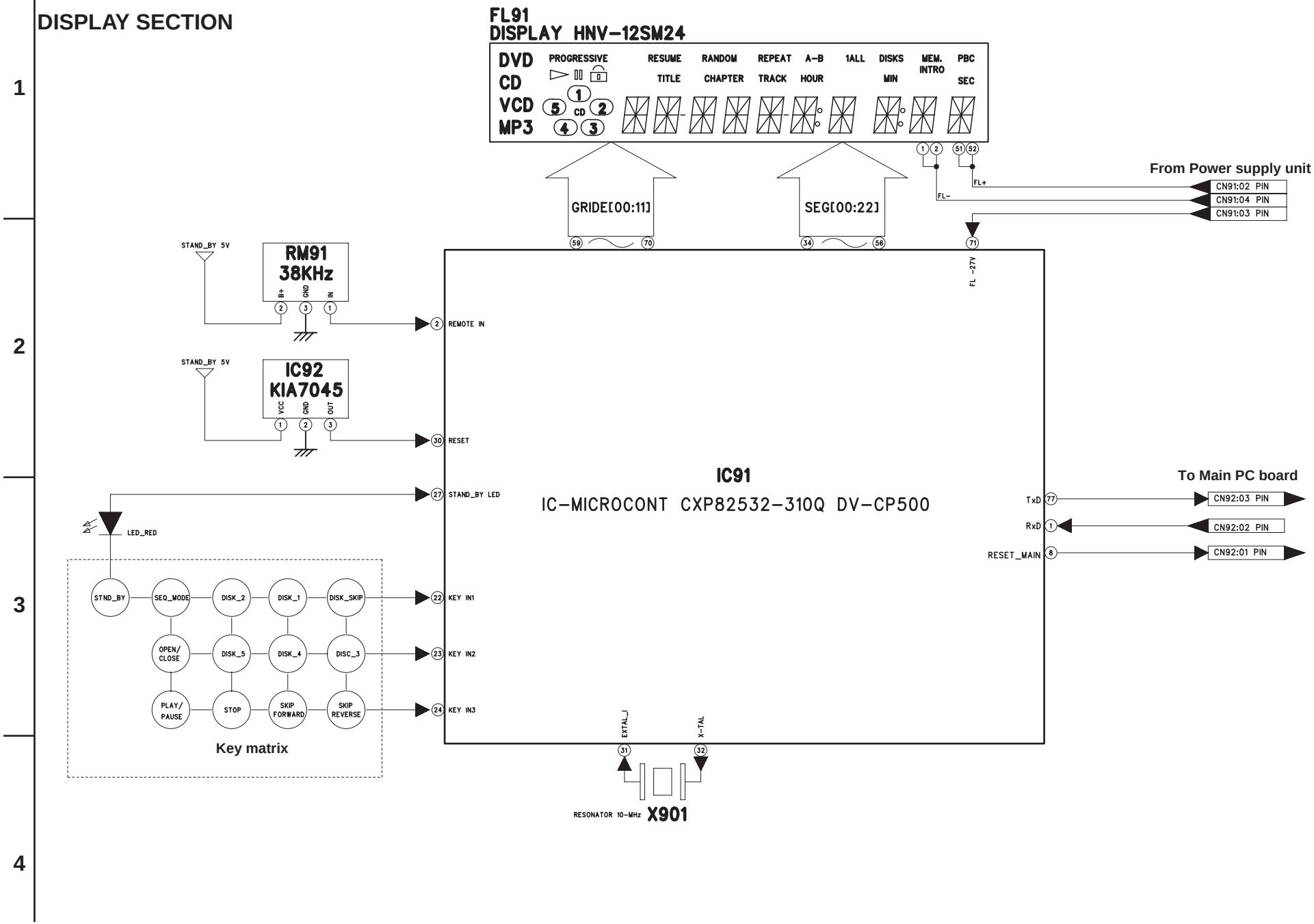
BLOCK DIAGRAM - 1

MAIN CIRCUIT BOARD



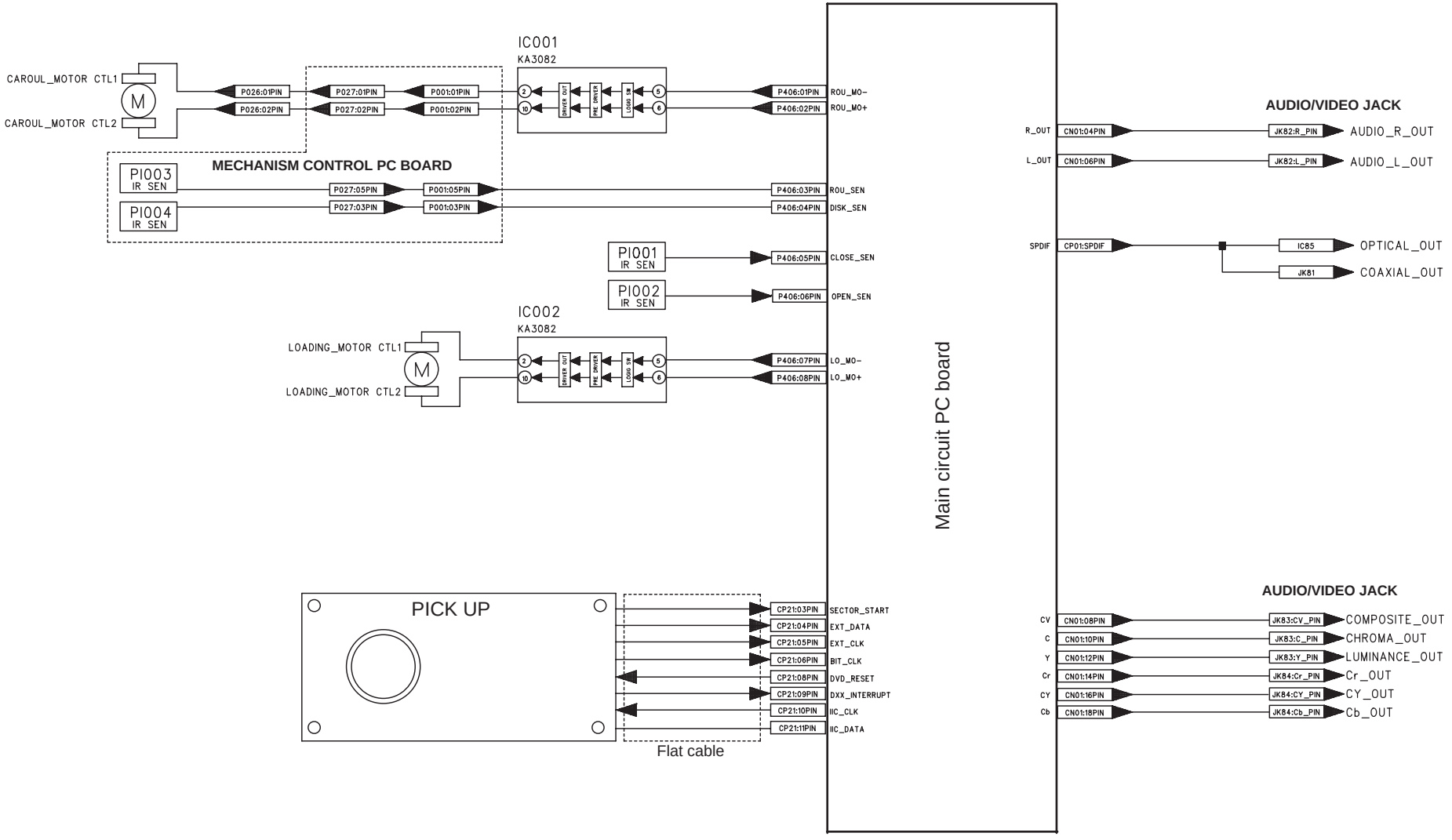
BLOCK DIAGRAM - 2

DISPLAY SECTION



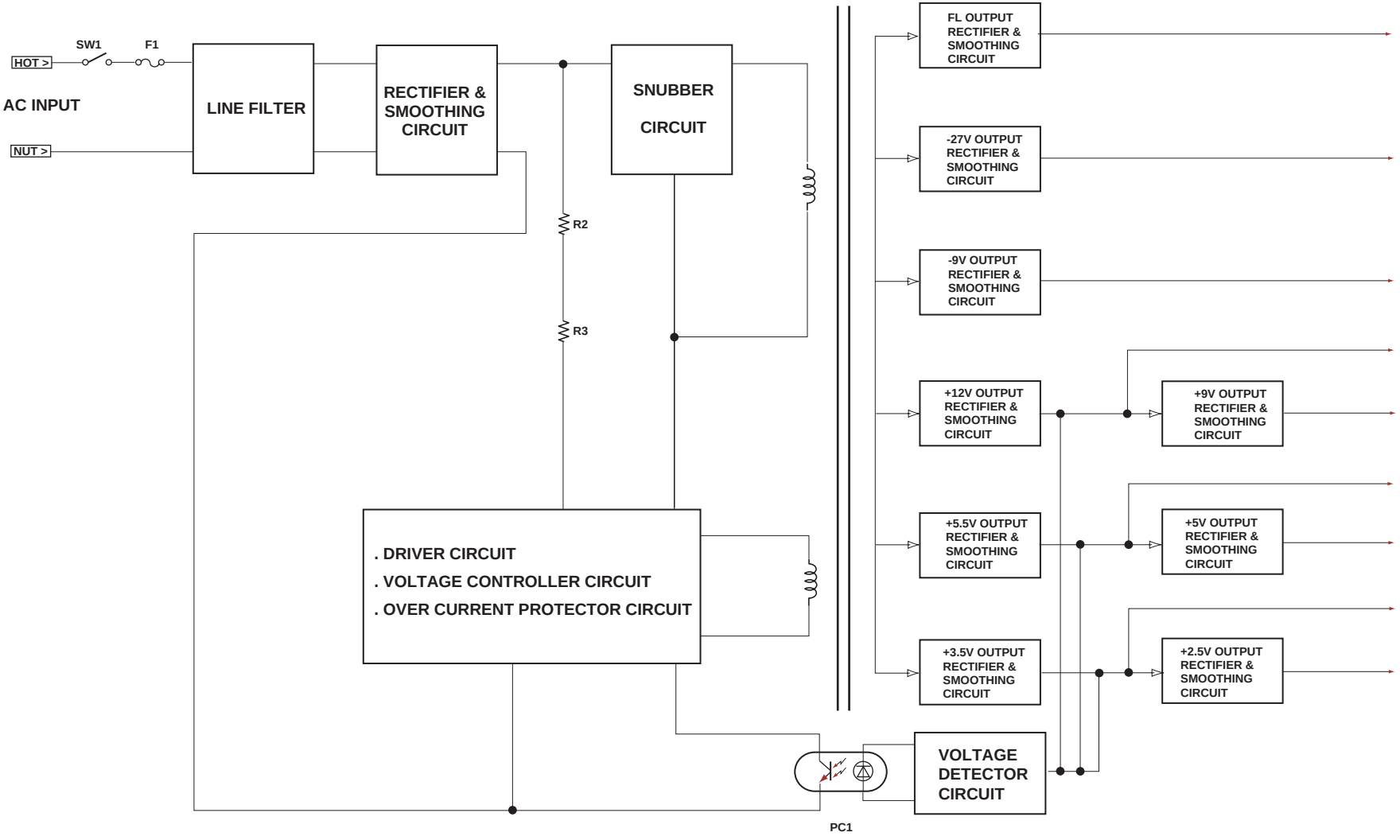
BLOCK DIAGRAM - 3

DVD MECHANISM & OUTPUT CIRCUIT

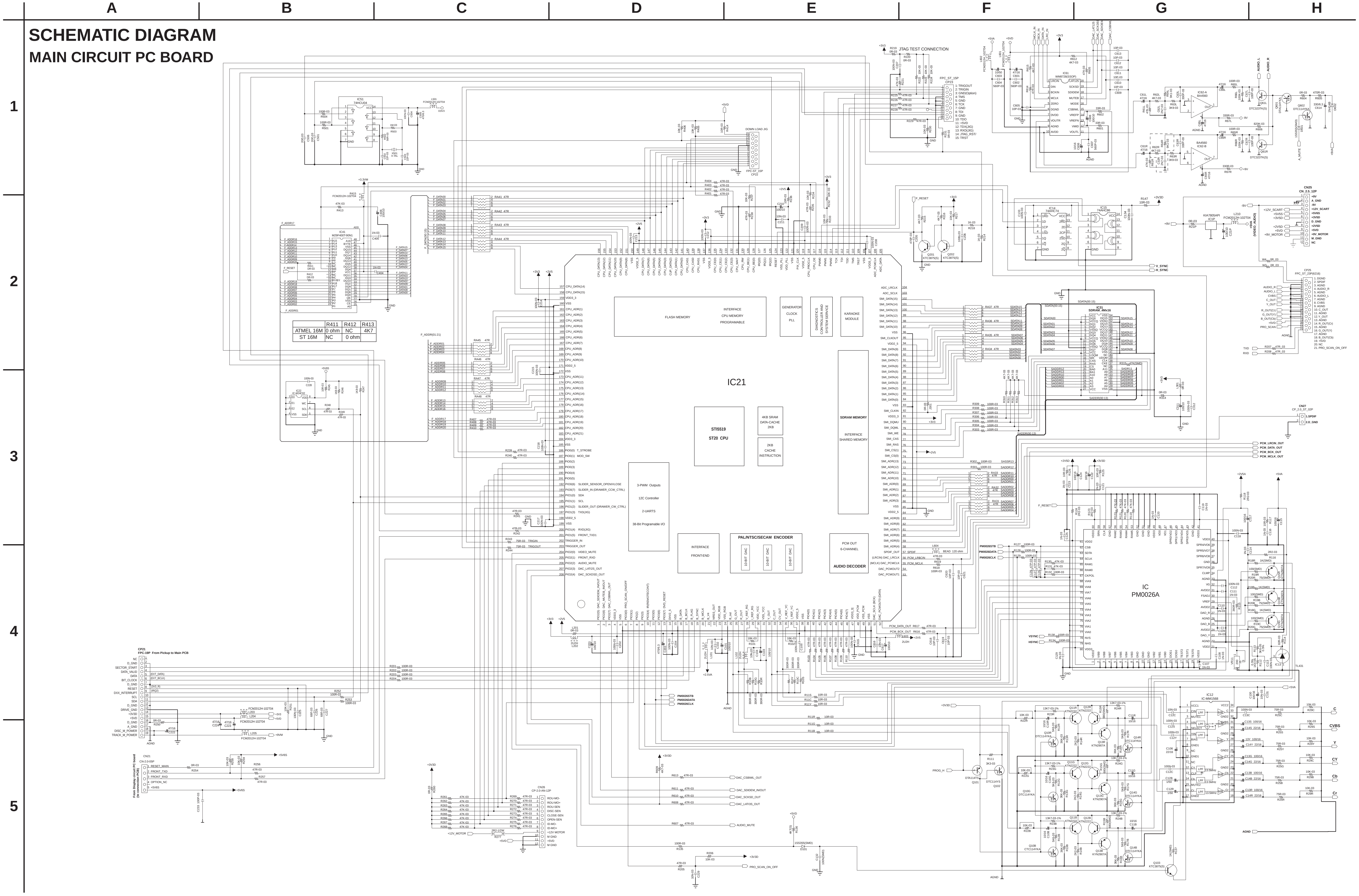


BLOCK DIAGRAM - 4

POWER SUPPLY UNIT



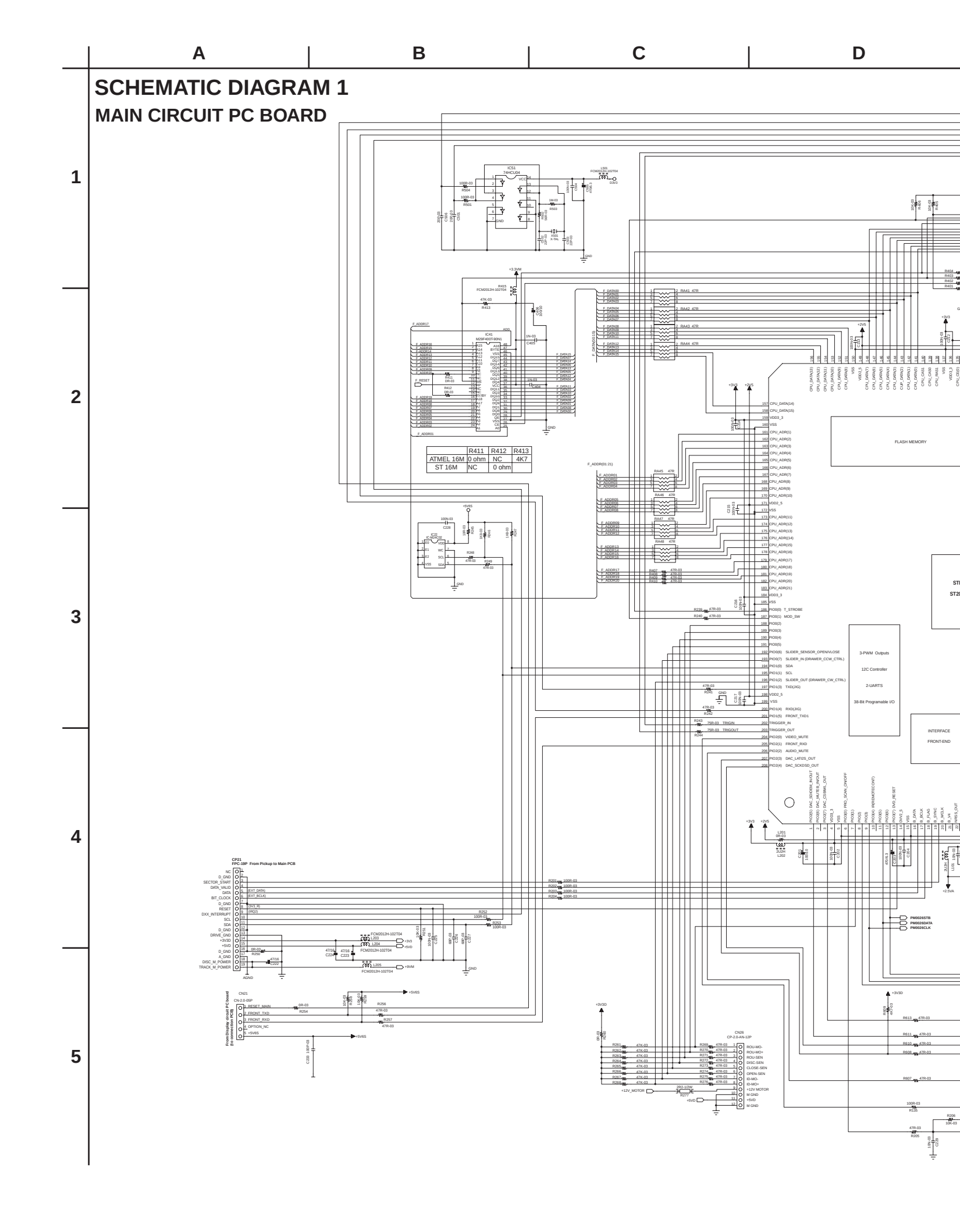
SCHEMATIC DIAGRAM
MAIN CIRCUIT PC BOARD

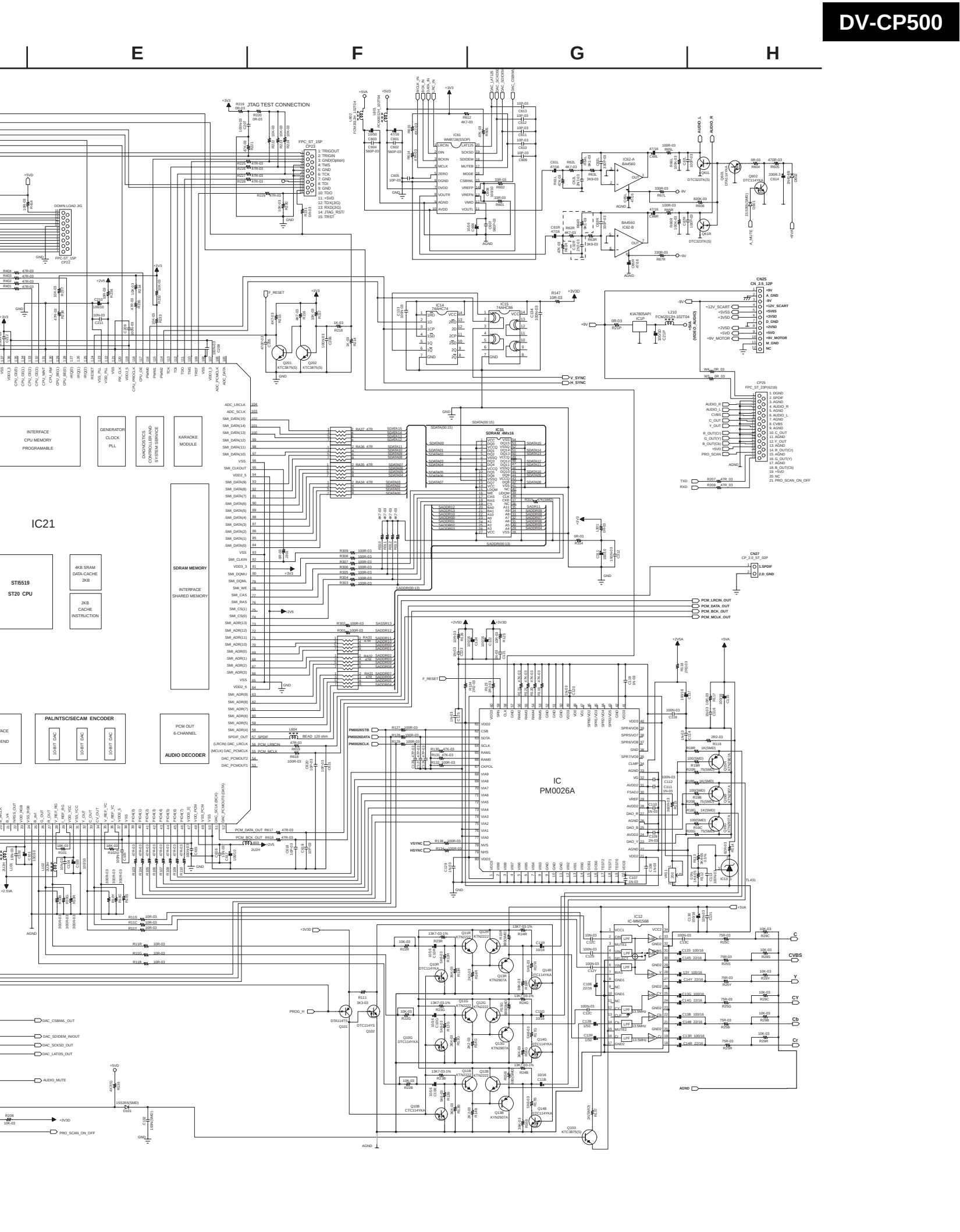

A
B
C
D
E
F
G
H
1
2
3
4
5
IC21
STI5519
ST20 CPU
FLASH MEMORY
INTERFACE
CPU MEMORY
PROGRAMABLE
GENERATOR
CLOCK
PLL
DIAGNOSTICS
CONTROLLER AND
SYSTEM SERVICE
KARAOKE
MODULE
SDRAM MEMORY
INTERFACE
SHARED MEMORY
4KB SRAM
DATA-CACHE
2KB
2KB
CACHE
INSTRUCTION
3-PWM Outputs
12C Controller
2-UARTS
38-Bit Programable I/O
INTERFACE
FRONT-END
PAL/NTSC/SECAM ENCODER
10-BIT DAC
PCM OUT
6-CHANNEL
AUDIO DECODER
IC41
M29F400T-90N1
IC51
74HCU04
IC22
IC-M24C02
IC31
SDRAM_4Mx16
IC61
WM8728(SSOP)
IC62-A
BA4560
IC62-B
IC14
74AHC74
IC15
74AHC86
KIA7805API
IC1P
IC
PM0026A
IC12
IC-MM1568
IC13
TL431
JTAG TEST CONNECTION
FPC_ST_15P
CP23
1: TRIGOUT
2: TRIGIN
3: GND(Option)
4: TMS
5: GND
6: TCK
7: GND
8: TDI
9: GND
10: TDO
11: +5VD
12: TDX(JIG)
13: RXD(JIG)
14: JTAG_RST/
15: TRST
DOWN LOAD JIG
FPC-ST_15P
CP22
CN25
CN_2.5_12P
+9V
A_GND
-9V
+12V_SCART
+5V6S
+3V5D
D_GND
+2V5D
+5VD
+9V_MOTOR
M_GND
NC
CP25
FPC_ST_23P(6216)
1. DGND
2. SPDIF
3. AGND
4. AUDIO_R
5. AGND
6. AUDIO_L
7. AGND
8. CVBS
9. AGND
10. C_OUT
11. AGND
12. Y_OUT
13. AGND
14. R_OUT(Cr)
15. AGND
16. G_OUT(Y)
17. AGND
18. B_OUT(Cb)
19. +5VD
20. NC
21. PRO_SCAN_ON_OFF
CN27
CP_2.0_ST_02P
1.SPDIF
2.D_GND
PCM_LRCIN_OUT
PCM_DATA_OUT
PCM_BCK_OUT
PCM_MCLK_OUT
V_SYNC
H_SYNC
AUDIO_L
AUDIO_R
A_MUTE
CP21
FPC-19P From Pickup to Main PCB
NC
D_GND
SECTOR_START
DATA_VALID
DATA
BIT_CLOCK
D_GND
RESET
DXX_INTERRUPT
SCL
SDA
D_GND
DRIVE_GND
+3V3D
+5VD
D_GND
A_GND
DISC_M_POWER
TRACK_M_POWER
CN21
CN-2.0-05P
From Display circuit PC board (to connection PCB)
RESET_MAIN
FRONT_TXD
FRONT_RXD
OPTION_NC
+5V6S
CN26
CP-2.0-AN-12P
ROU-MO-
ROU-MO+
ROU-SEN
DISC-SEN
CLOSE-SEN
OPEN-SEN
ID-MO-
ID-MO+
+12V MOTOR
M GND
+5VD
M GND
DAC_CSBIWL_OUT
DAC_SDIDEM_IN/OUT
DAC_SCKSD_OUT
DAC_LATI3S_OUT
AUDIO_MUTE
PRO_SCAN_ON_OFF
PROG_H
C
CVBS
Y
CY
Cb
Cr
AGND

	R411	R412	R413
ATMEL 16M	0 ohm	NC	4K7
ST 16M	NC	0 ohm	

SCHEMATIC DIAGRAM 1

MAIN CIRCUIT PC BOARD




E
F
G
H
JTAG TEST CONNECTION
FPC_ST_15P
CP23
1: TRIGOUT
2: TRIGIN
3: GND(Option)
4: TMS
5: GND
6: TCK
7: GND
8: TDI
9: GND
10: TDO
11: +5VD
12: TDX(JIG)
13: RXD(JIG)
14: JTAG_RST/
15: TRST
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6-CHANNEL
AUDIO DECODER
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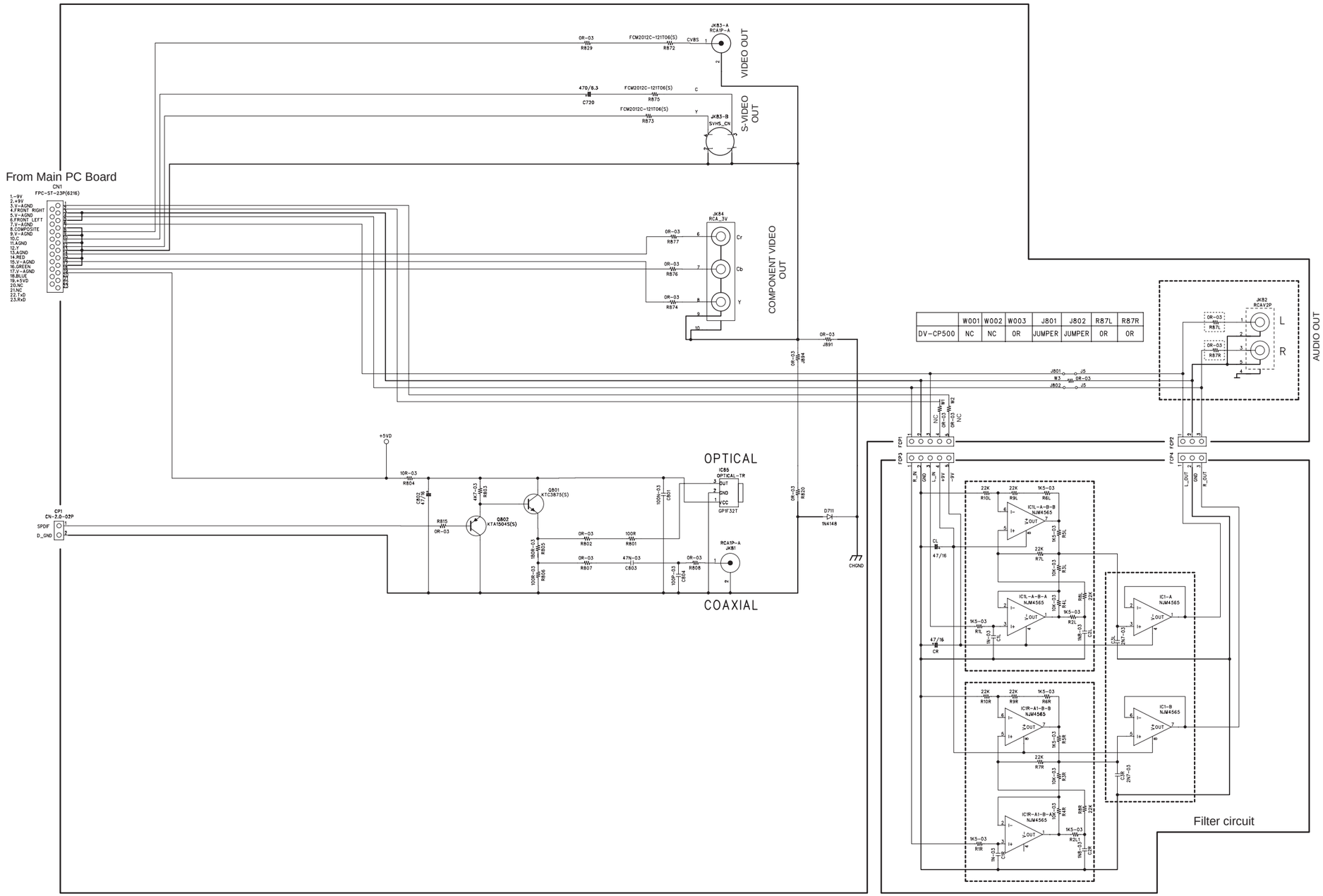
PM0026A
IC1
WM8728(SSOP)
IC31
SDRAM_4Mx16
IC12
IC-MM1568
IC14
74AHC74
IC15
74AHC86
IC62-A
BA4560
IC62-B
BA4560
IC1P
KIA7805API
CN25
FPC_ST_23P(6216)
CN27
CP_2.0_ST_02P
CN2S
CN_2.5_12P
PCM_LRCIN_OUT
PCM_DATA_OUT
PCM_BCK_OUT
PCM_MCLK_OUT
V_SYNC
H_SYNC
F_RESET
AUDIO_L
AUDIO_R
AUDIO_MUTE
PROG_H
DAC_CSBIWL_OUT
DAC_SDIDEM_IN/OUT
DAC_SCKSD_OUT
DAC_LATI3S_OUT
PRO_SCAN_ON_OFF
+5VD
+3V3
+3V3D
+2V5
+2V5A
+5VA
+9V
-9V
AGND
GND

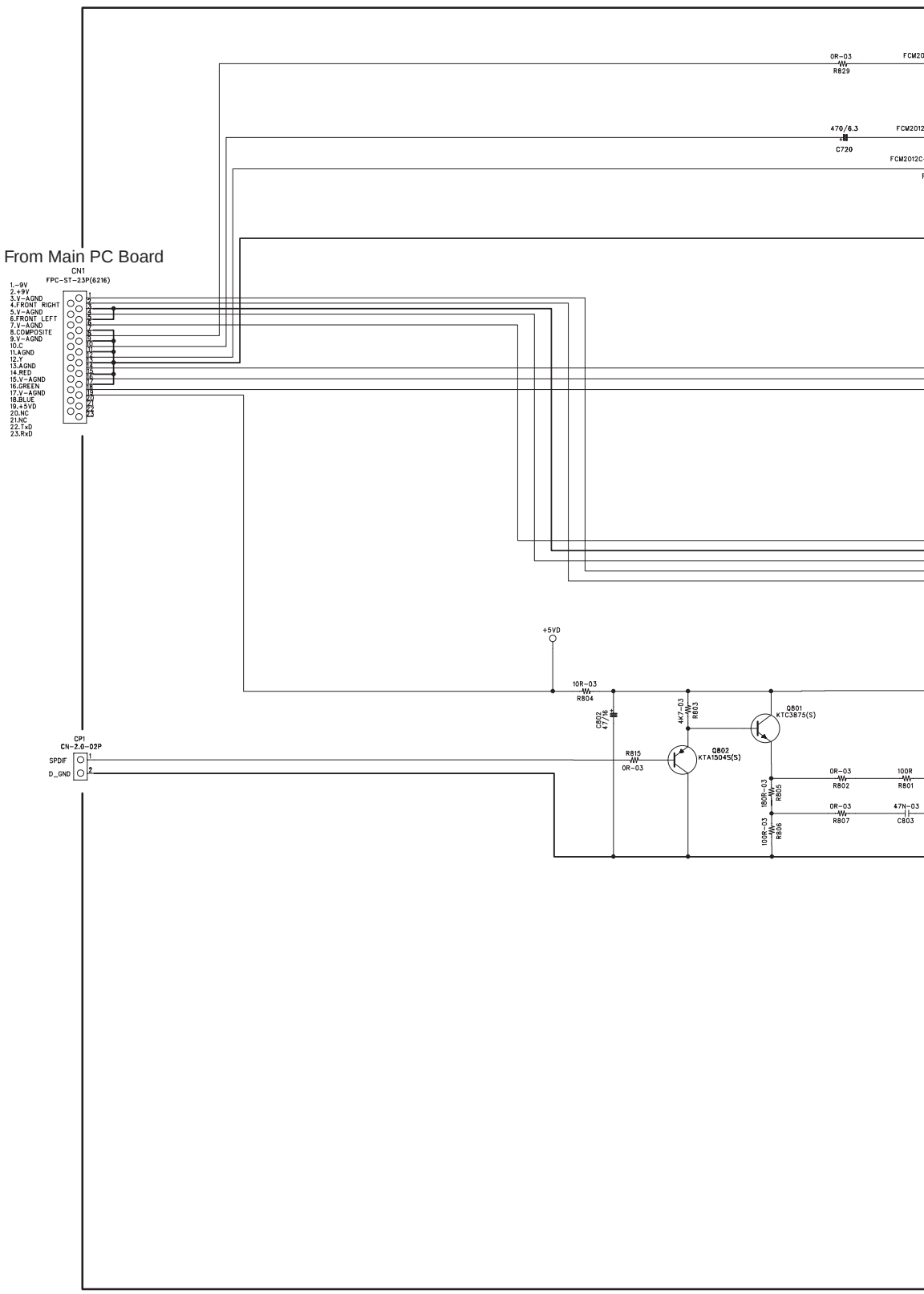
SCHEMATIC DIAGRAM 2

OUTPUT TERMINAL PC BOARD

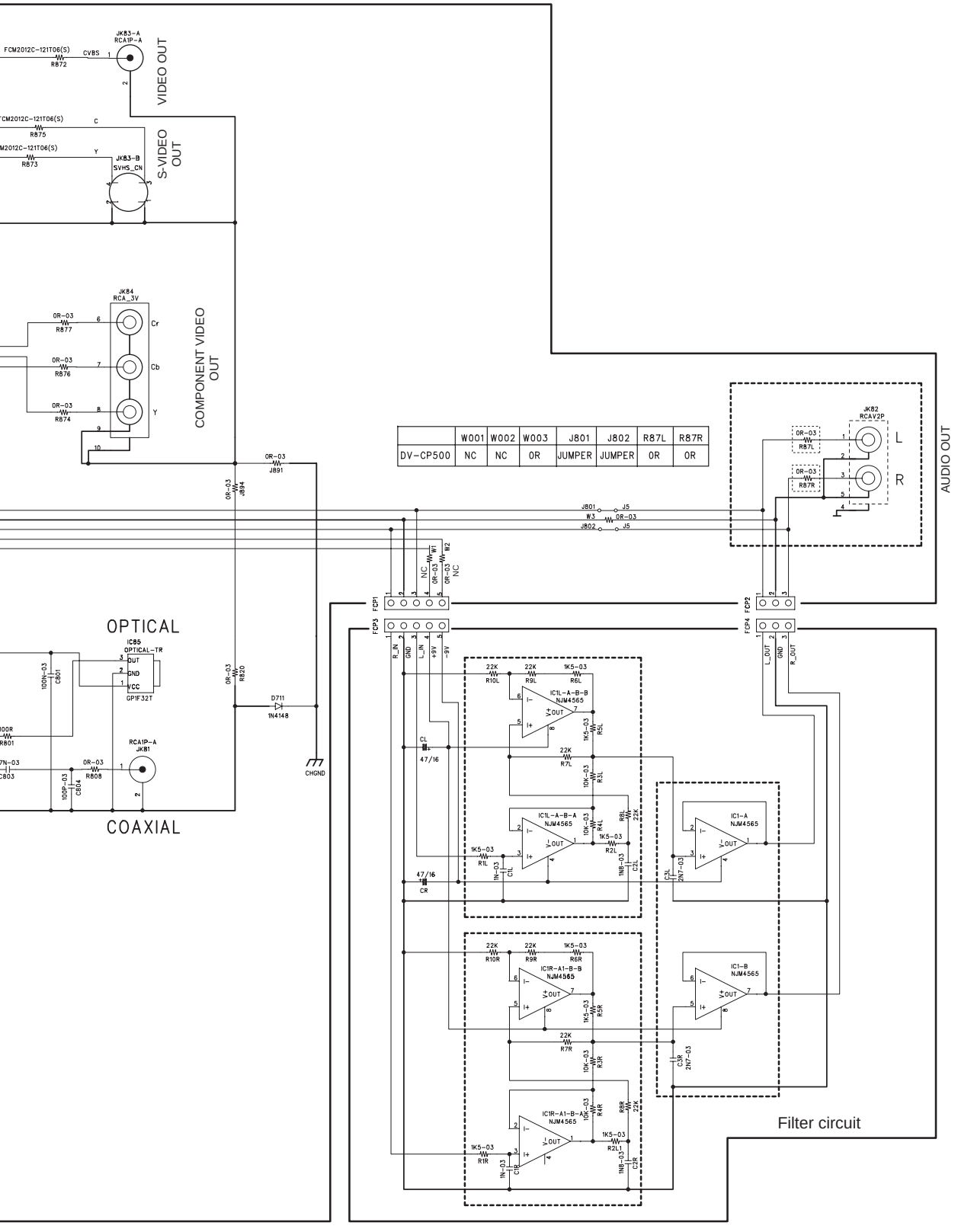


SCHEMATIC DIAGRAM 2

OUTPUT TERMINAL PC BOARD

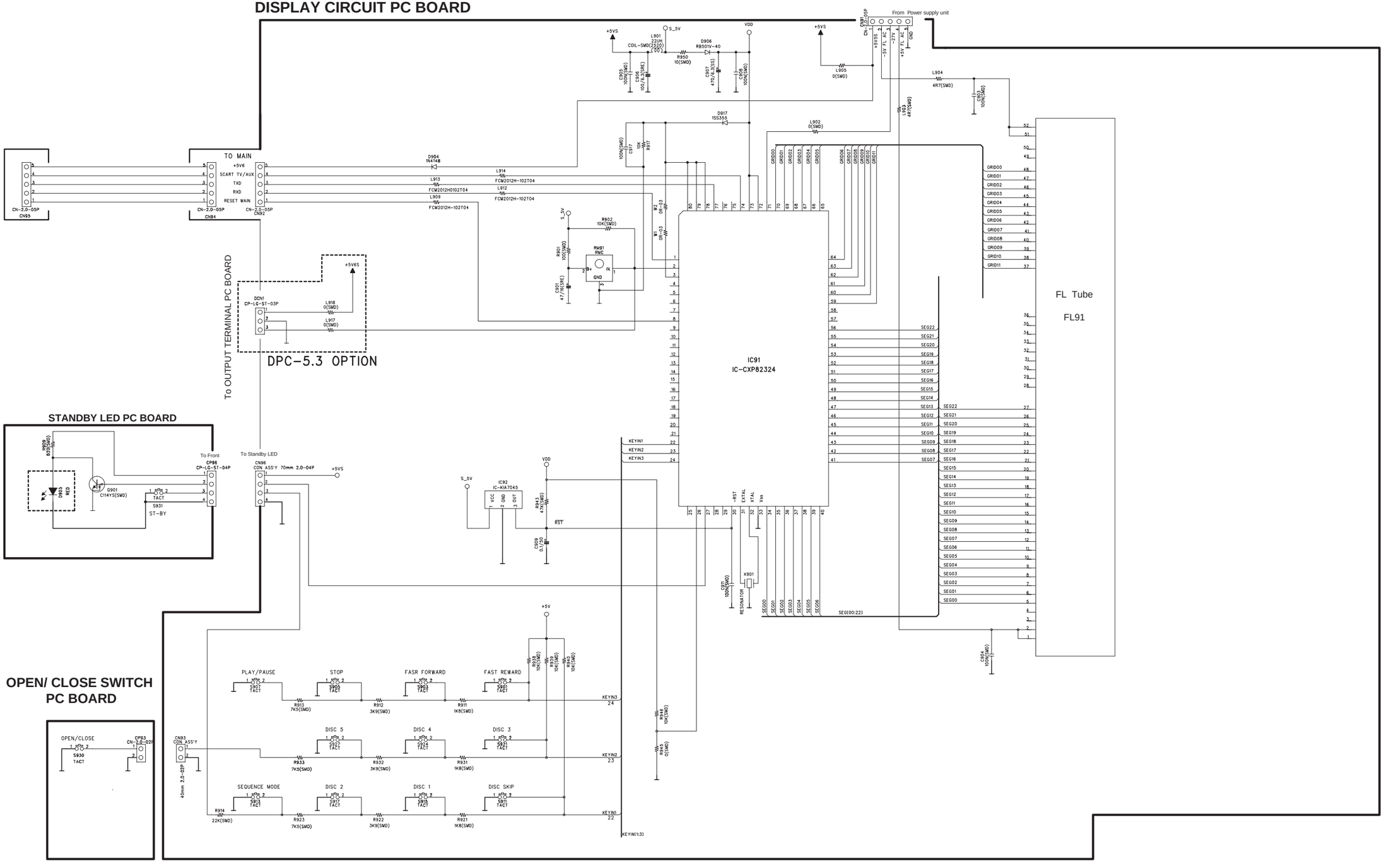


E F G H

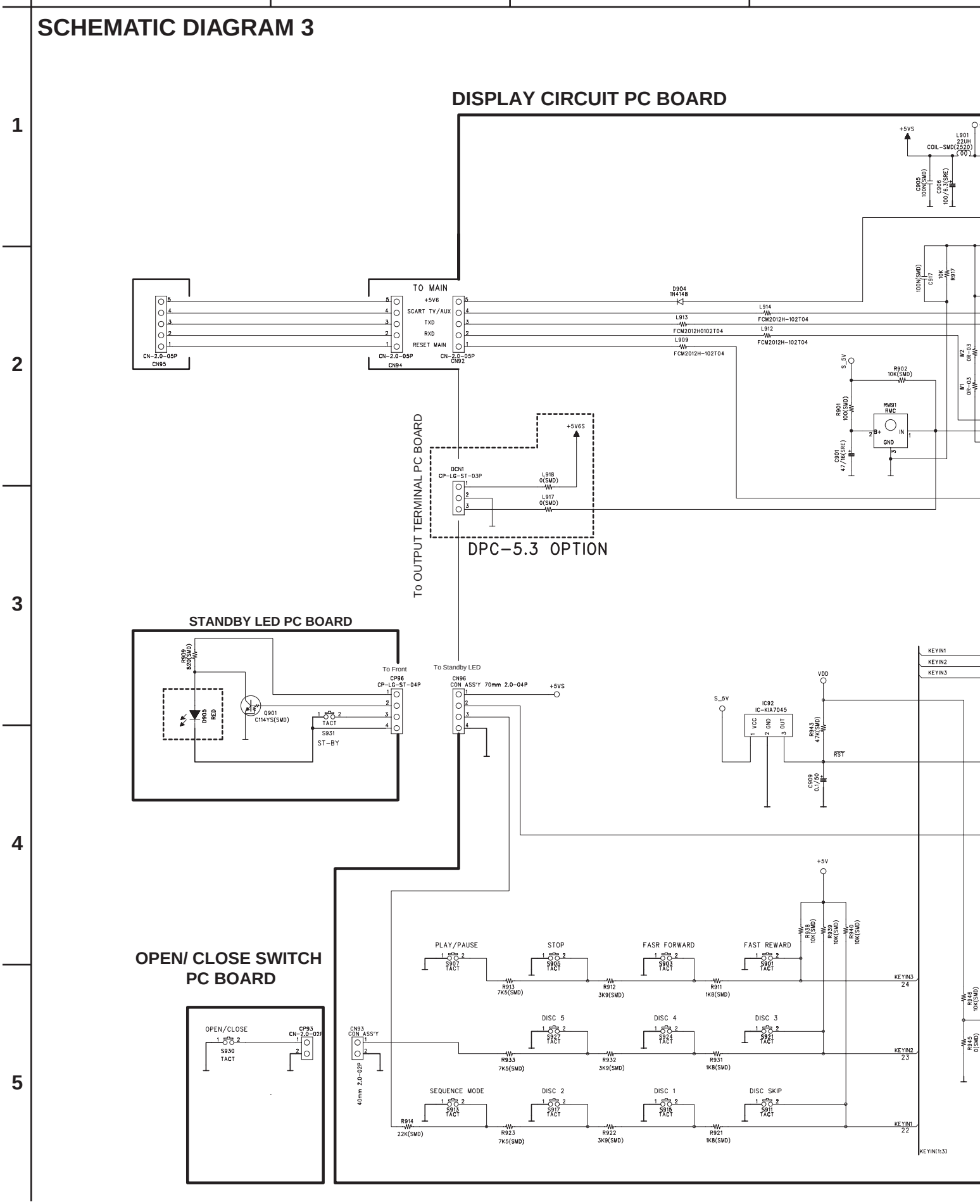


	W001	W002	W003	J801	J802	R87L	R87R
DV-CP500	NC	NC	0R	JUMPER	JUMPER	0R	0R

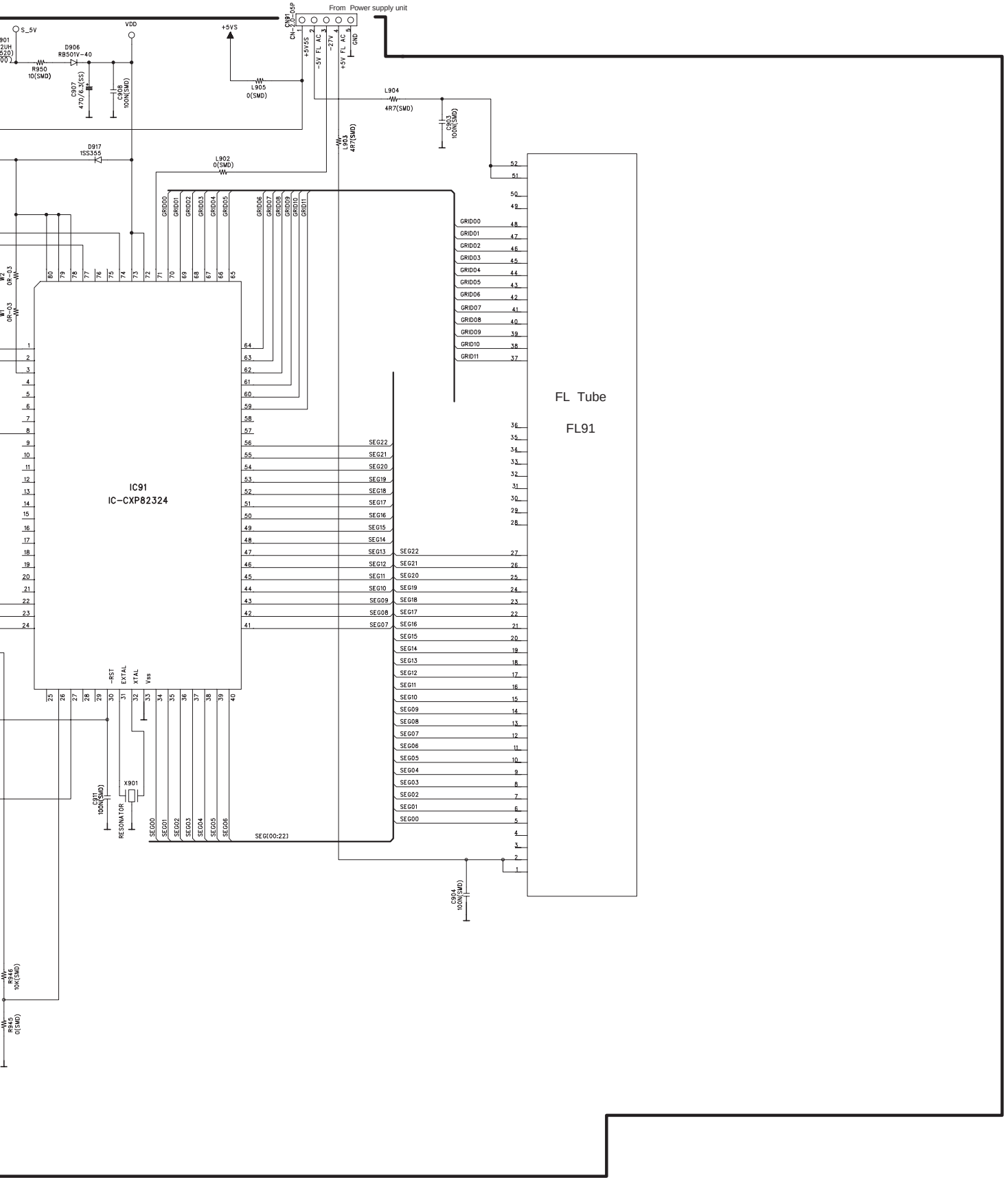
SCHEMATIC DIAGRAM 3



SCHEMATIC DIAGRAM 3

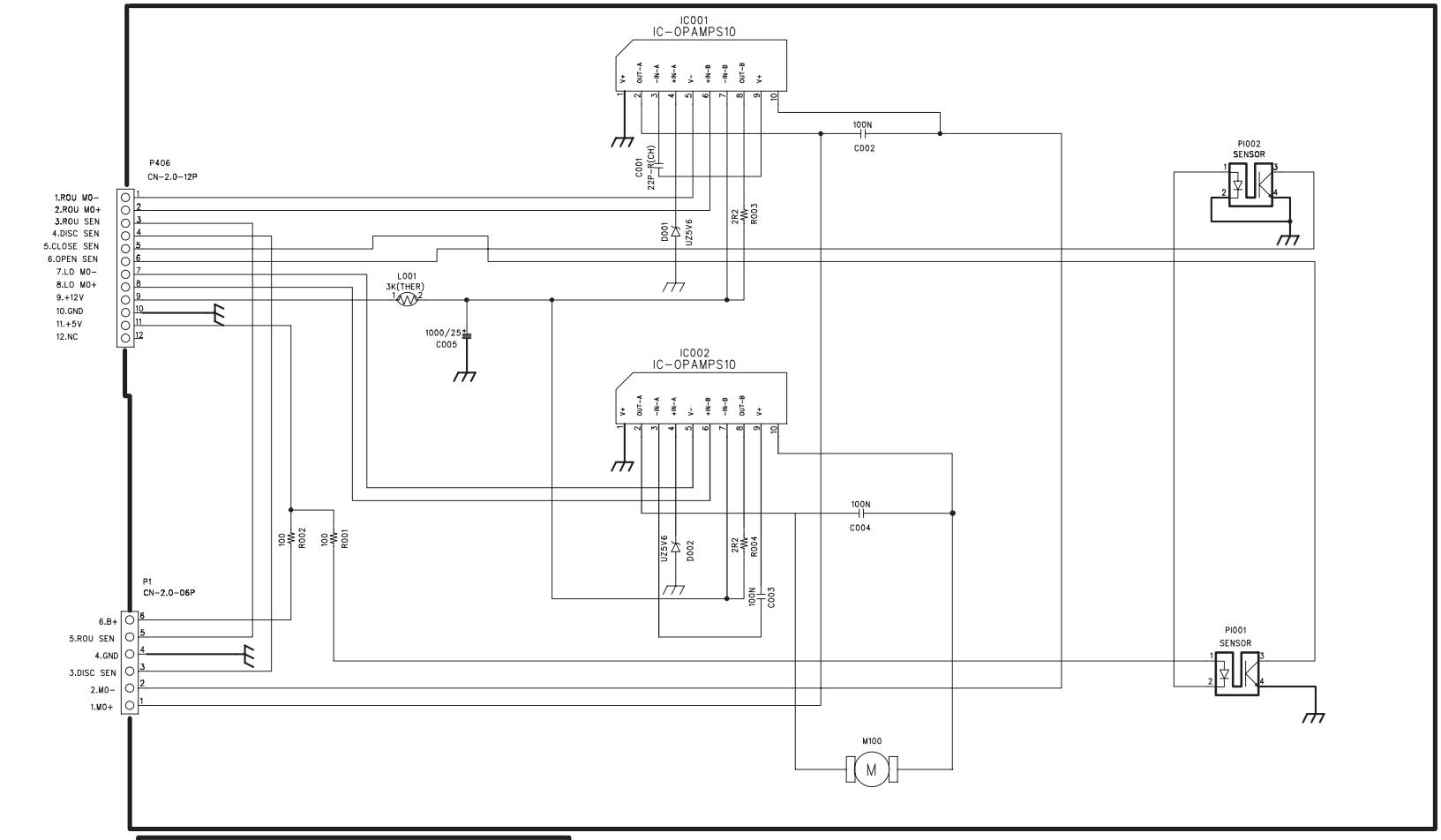


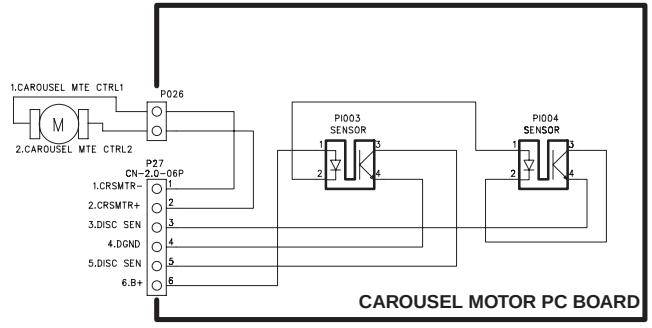
E F G H


From Power supply unit
CN91
CN-2120-05P
S_5V
VDD
+5VS
+5VSS
-5V FL AC
-27V
+5V FL AC
GND
D906
RB501V-40
R950
10(SMD)
C907
470/6.3(GS)
C908
100N(SMD)
L905
0(SMD)
L904
4R7(SMD)
C903
100N(SMD)
L903
4R7(SMD)
D917
1SS355
L902
0(SMD)
IC91
IC-CXP82324
FL Tube
FL91
GRID00
GRID01
GRID02
GRID03
GRID04
GRID05
GRID06
GRID07
GRID08
GRID09
GRID10
GRID11
SEG22
SEG21
SEG20
SEG19
SEG18
SEG17
SEG16
SEG15
SEG14
SEG13
SEG12
SEG11
SEG10
SEG09
SEG08
SEG07
SEG06
SEG05
SEG04
SEG03
SEG02
SEG01
SEG00
SEG[00:22]
-RST
EXTAL
XTAL
Vss
X901
RESONATOR
C911
100N(SMD)
C904
100N(SMD)
R914
10K(SMD)
R915
0(SMD)

SCHEMATIC DIAGRAM 4

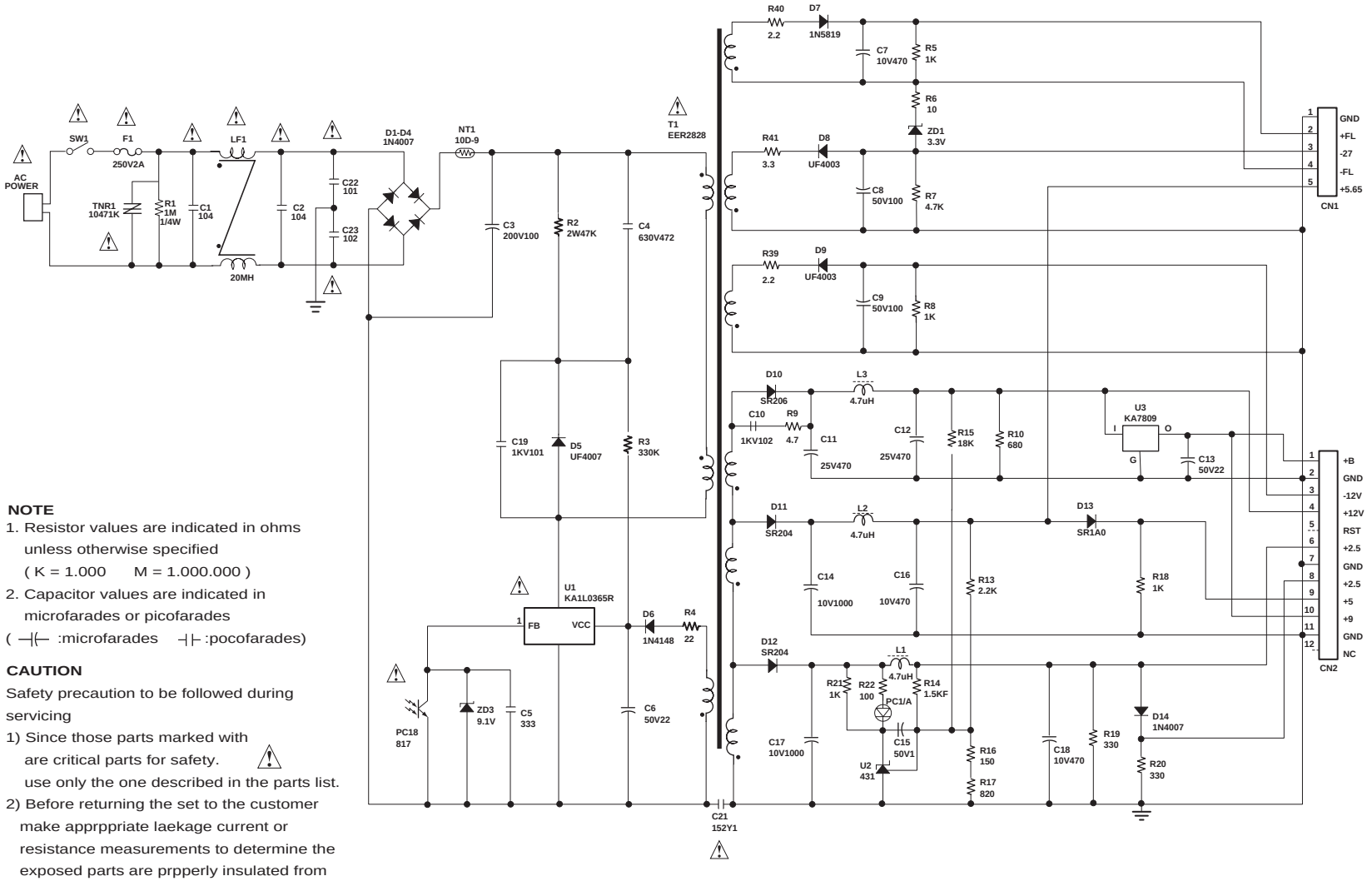
MECHANISM SECTION





SCHEMATIC DIAGRAM 5

POWER SUPPLY UNIT



NOTE

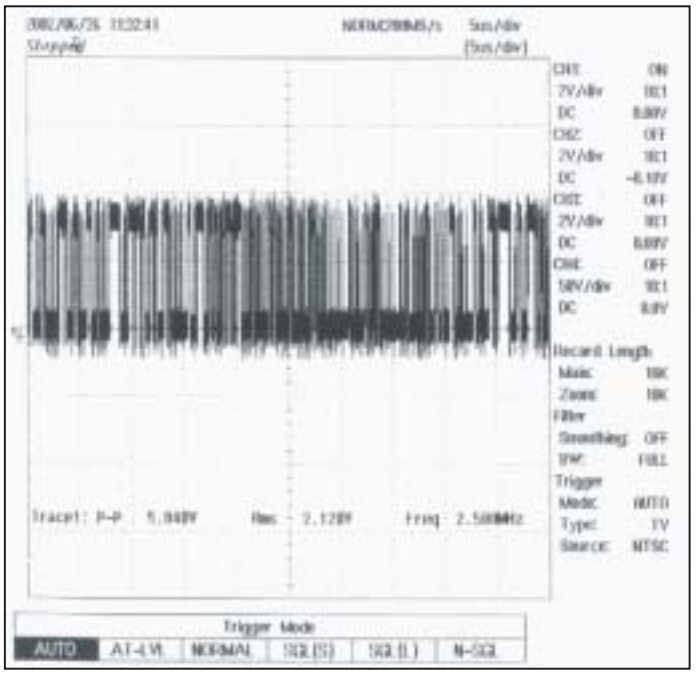
1. Resistor values are indicated in ohms unless otherwise specified
   (K = 1.000 M = 1.000.000)
2. Capacitor values are indicated in microfarades or picofarades
   (⊣|⊢ :microfarades ⊣|⊢ :pocofarades)

CAUTION

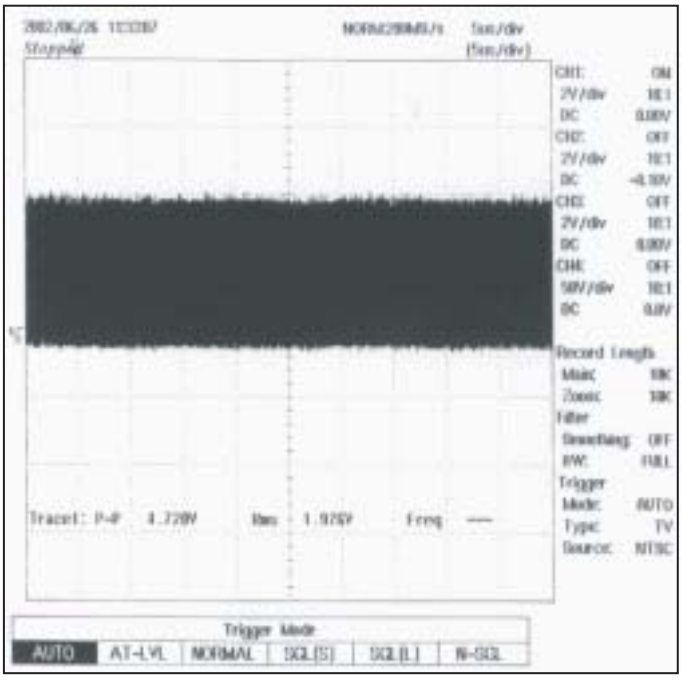
Safety precaution to be followed during servicing

1) Since those parts marked with ⚠ are critical parts for safety. ⚠ use only the one described in the parts list.
2) Before returning the set to the customer make apprppriate laekage current or resistance measurements to determine the exposed parts are prpperly insulated from the supply circuit.

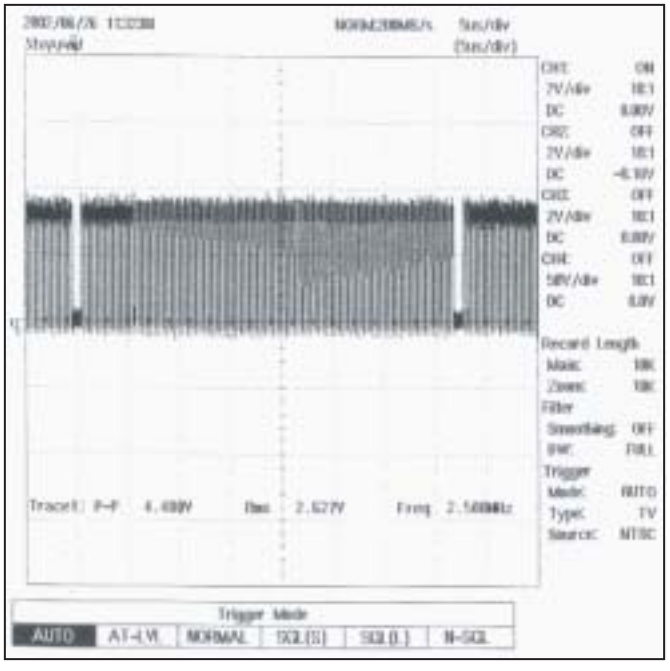
SIGNAL WAVEFORM-1



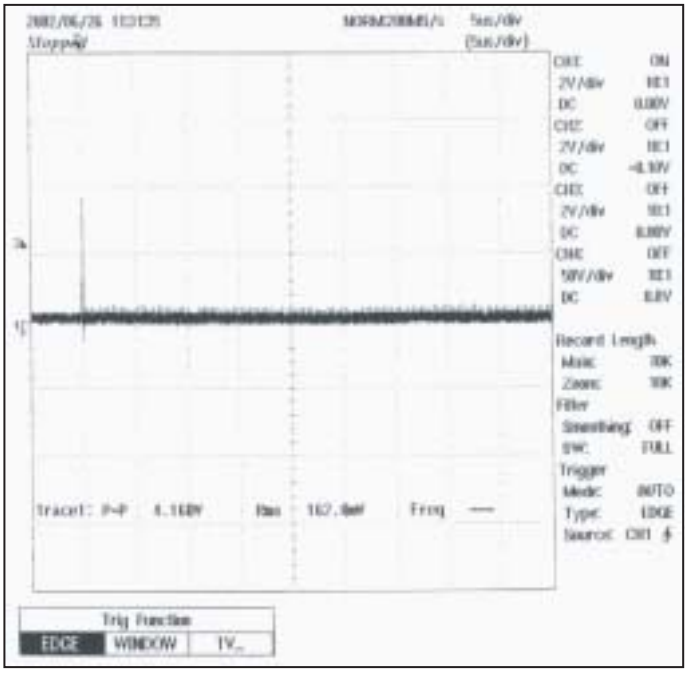
IC21 PIN 16 (EXT_DATA)



IC21 PIN 17 (EXT_BCLK)

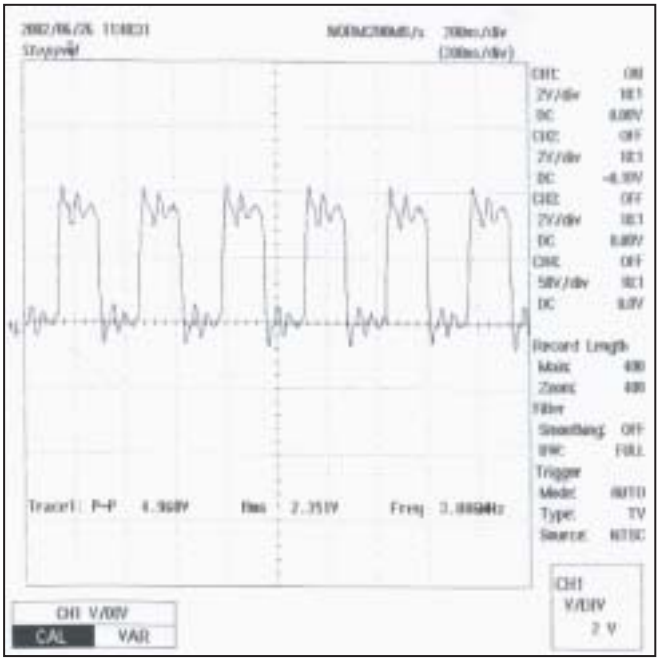


IC21 PIN 18 (DATA_VALID)

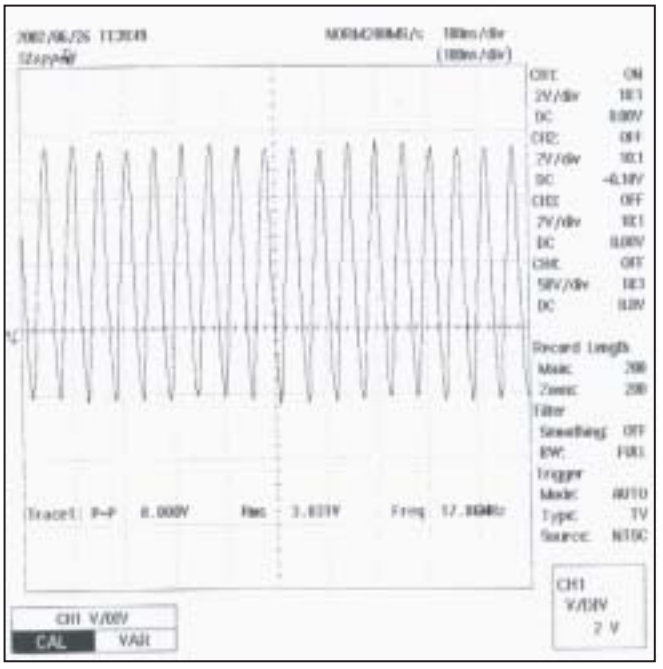


IC21 PIN 19 (SECTOR_START)

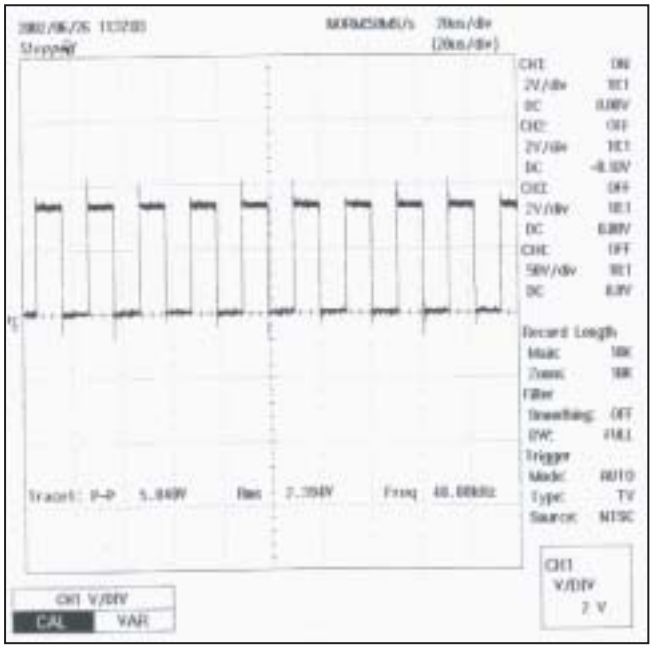
SIGNAL WAVEFORM-2



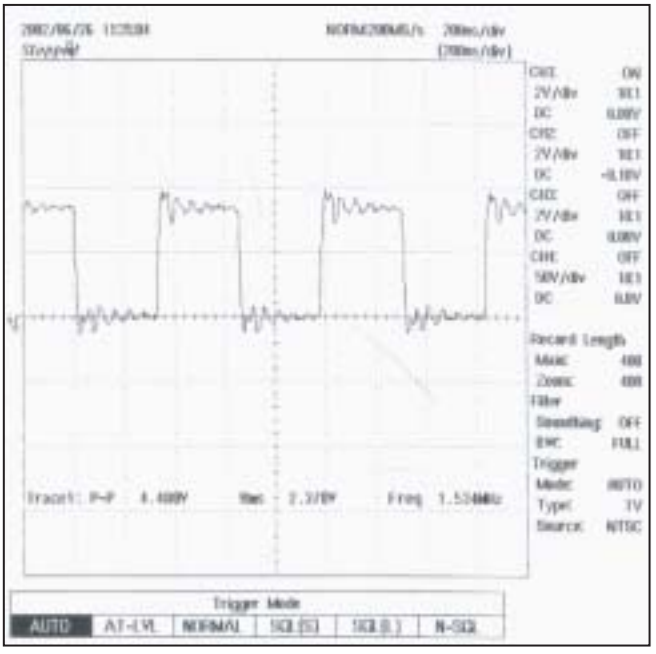
IC21 PIN 51 (PCM_CLK)



IC21 PIN 55 (PCM_MCLK)

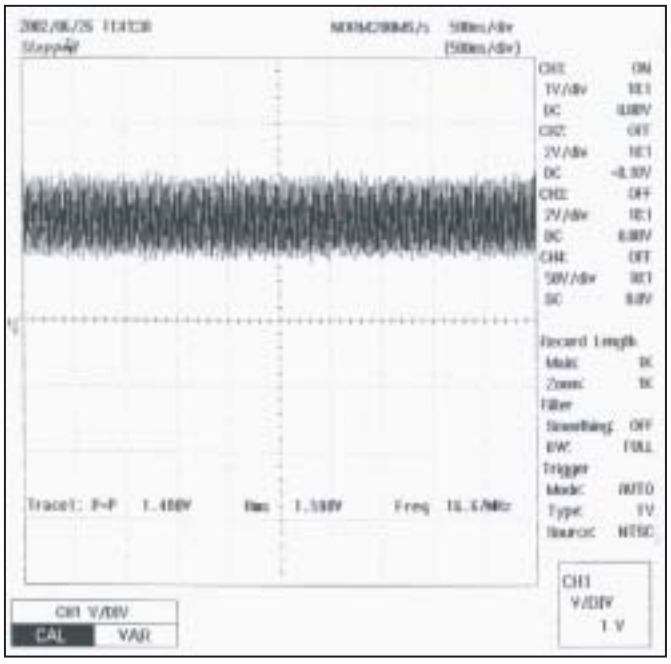


IC21 PIN 56 (PCM_LRCLK)

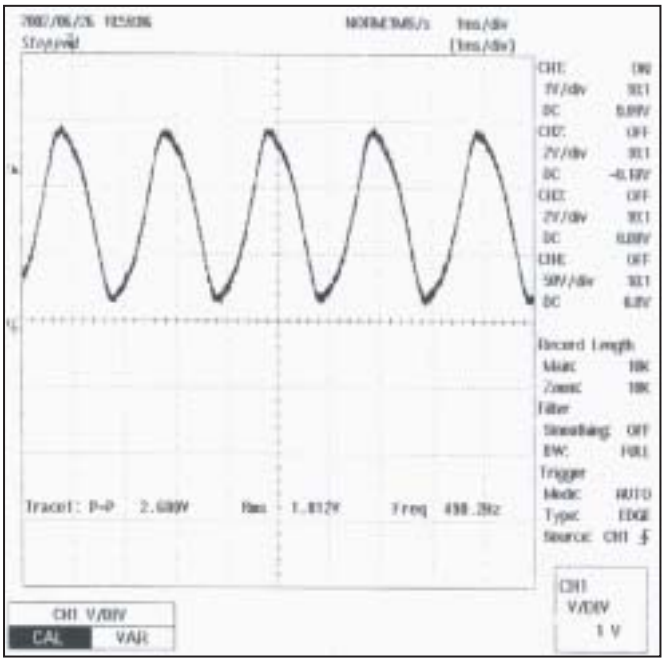


IC21 PIN 57 (SPDIF)

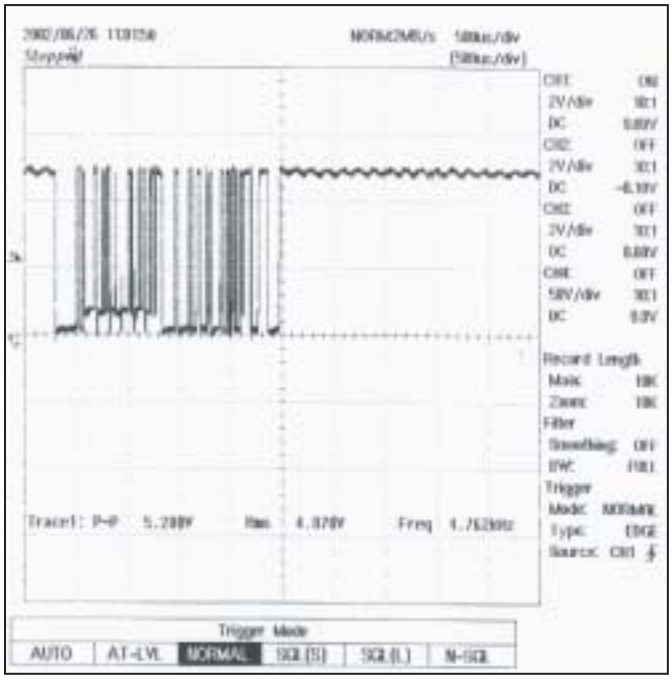
SIGNAL WAVEFORM-3



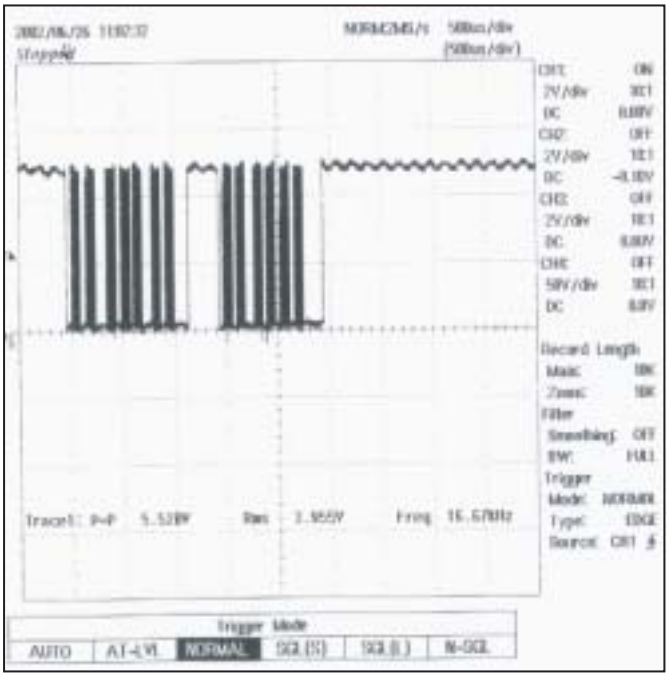
IC21 PIN 82 (SMI_CLK)



IC21 PIN (PIX_CLK)

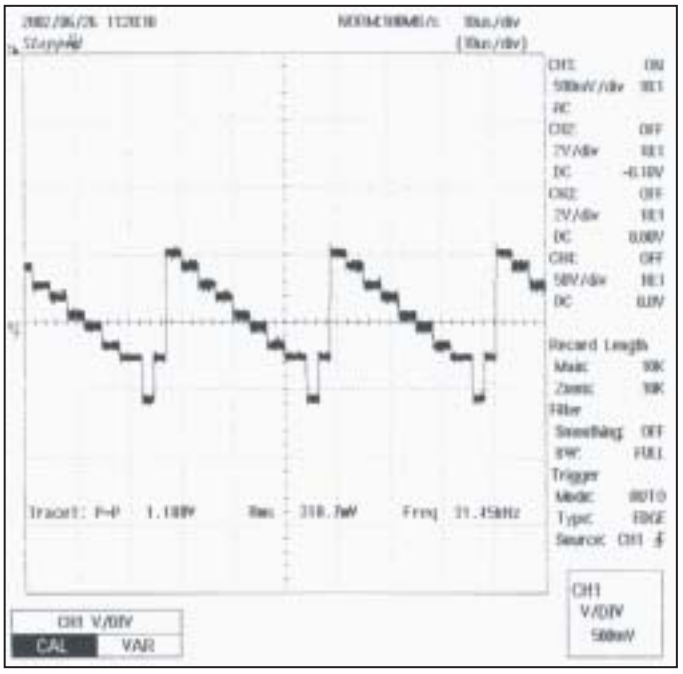


IC22 PIN 5 (IIC_DATA)

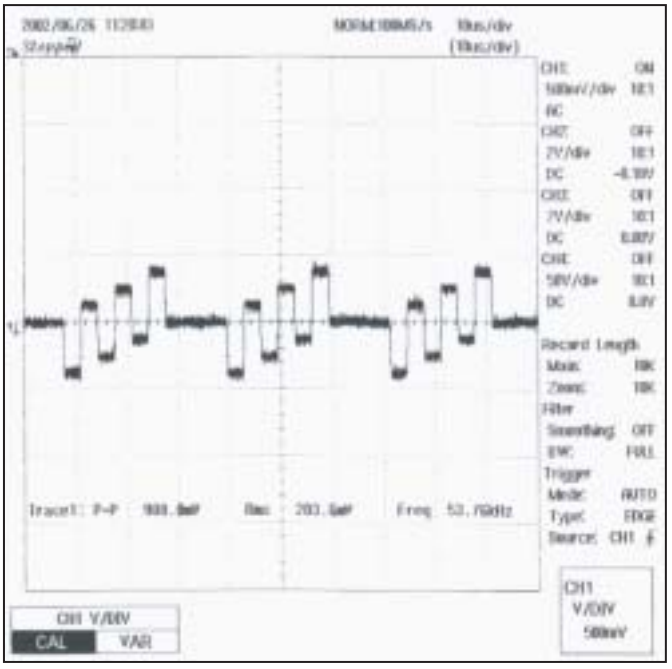


IC22 PIN 6 (IIC_CLK)

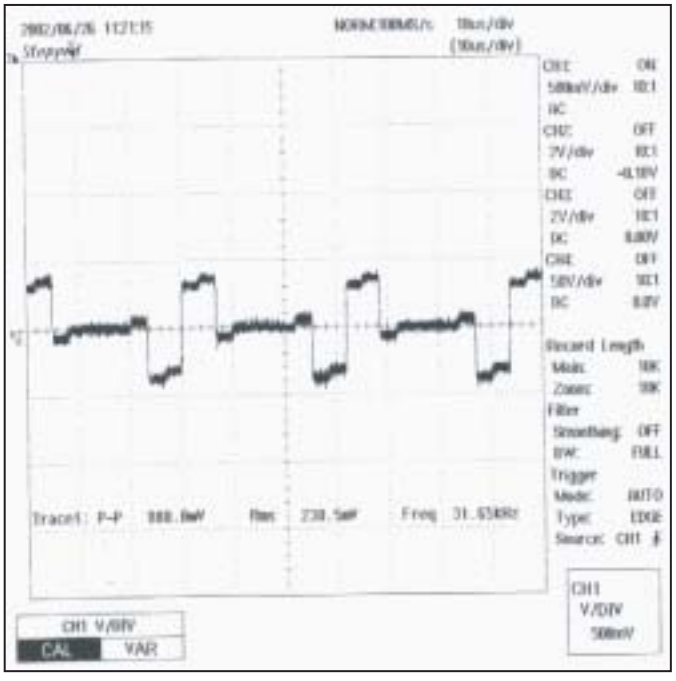
SIGNAL WAVEFORM-4



IC11 PIN 23 (DAO_Y)

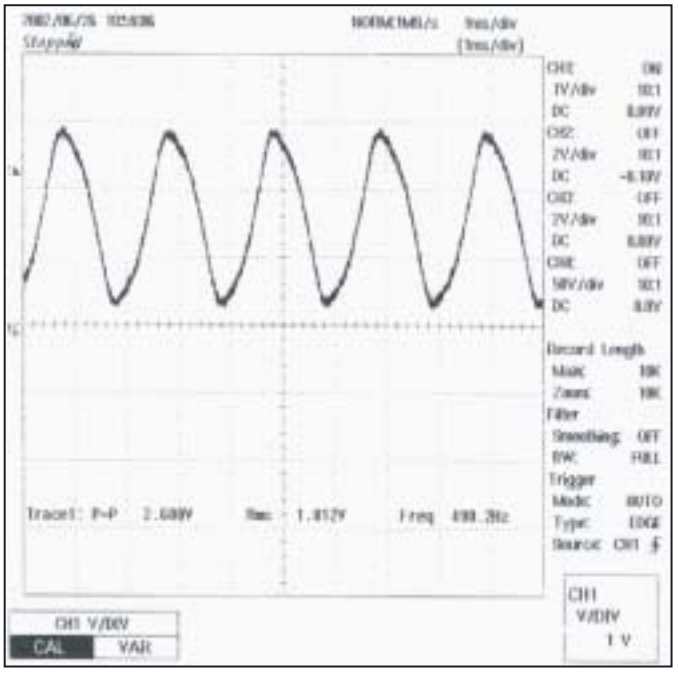


IC11 PIN 25 (DAO_B)

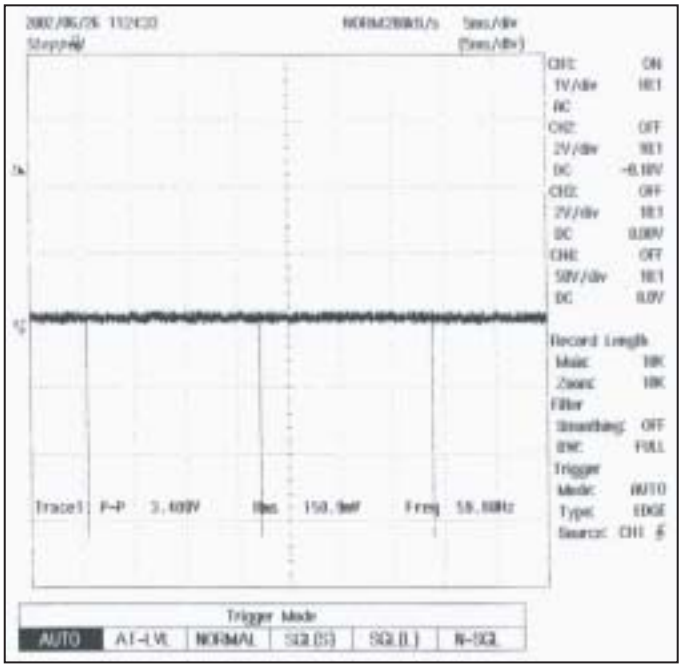


IC11 PIN 27 (DAO_R)

SIGNAL WAVEFORM-5

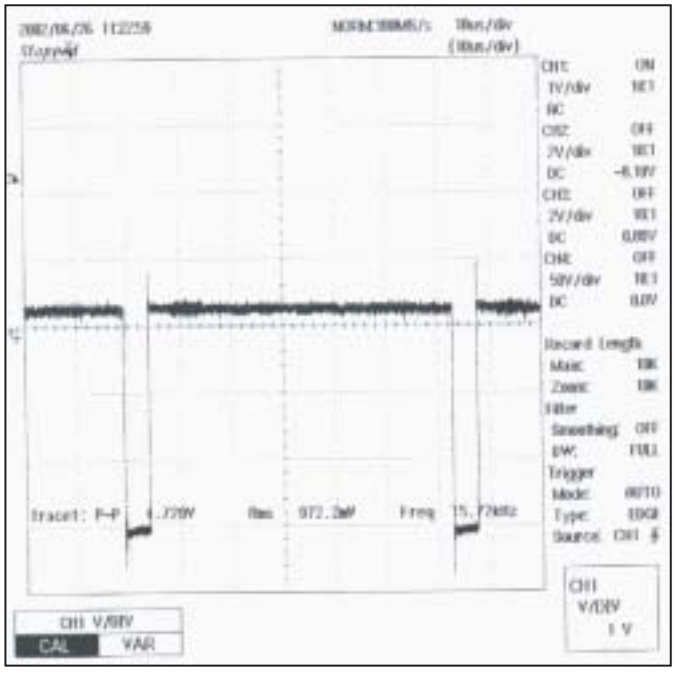


IC11 PIN 58 (PIX_CLK)

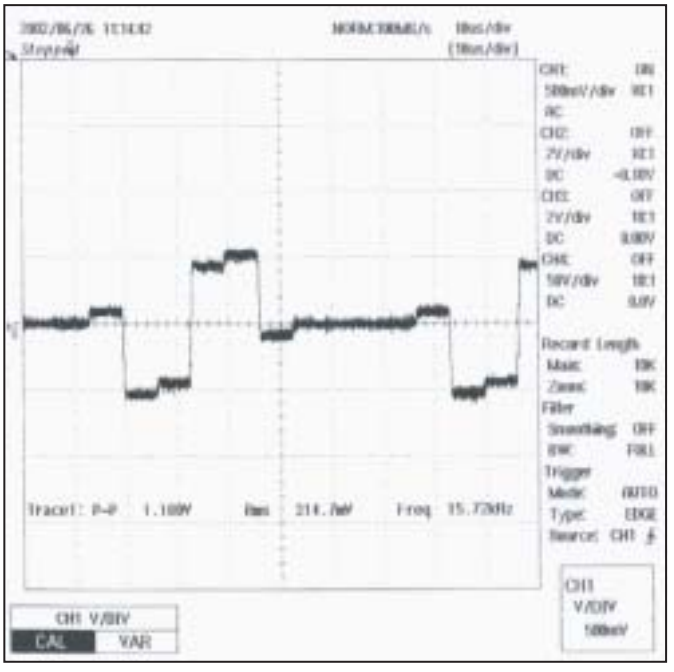


IC11 PIN 78 (V_SYNC)

Signal: 100% Color Bar (Interlace Mode)

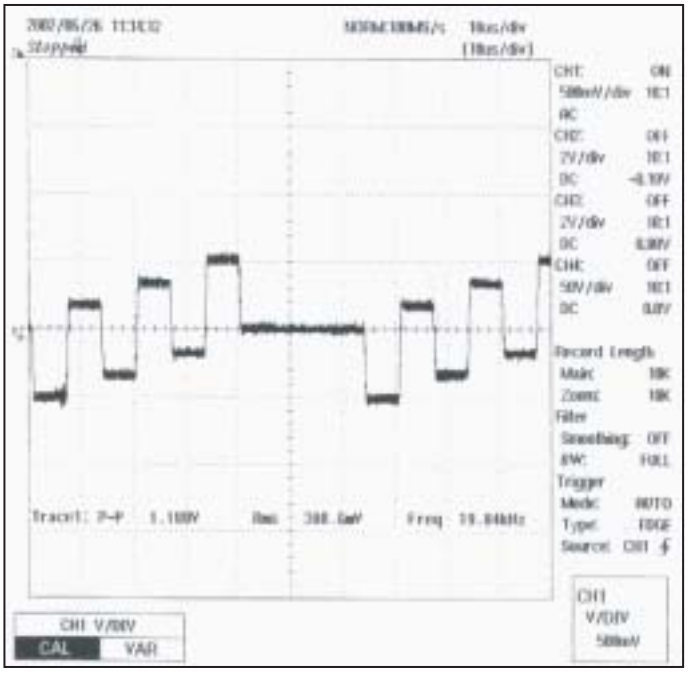


IC11 PIN79 (H_SYNC)

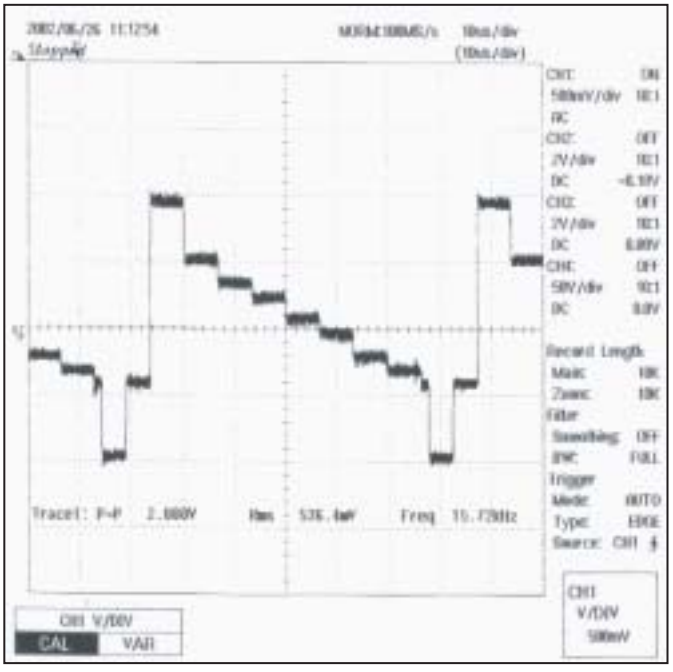


IC12 PIN 19 (Cr)

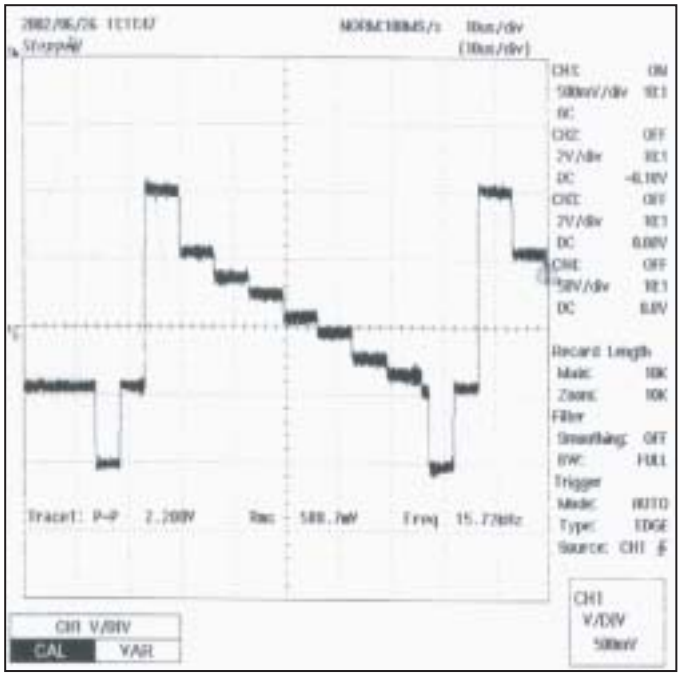
SIGNAL WAVEFORM-6



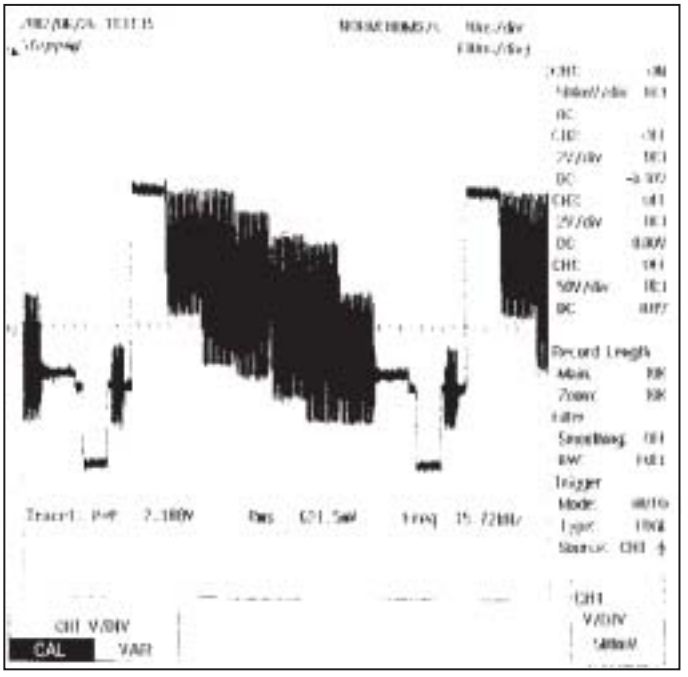
IC12 PIN 22 (Cb)



IC12 PIN 25 (CY)



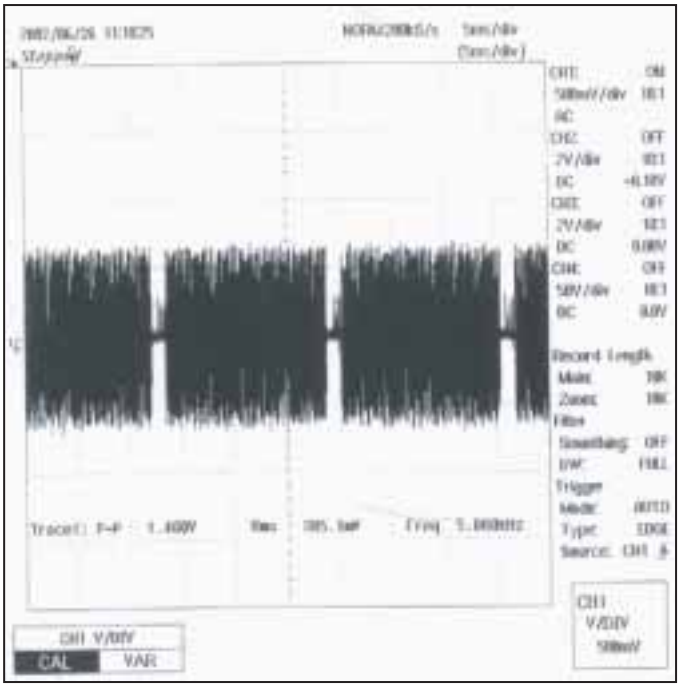
IC12 PIN 28 (Y_OUT)



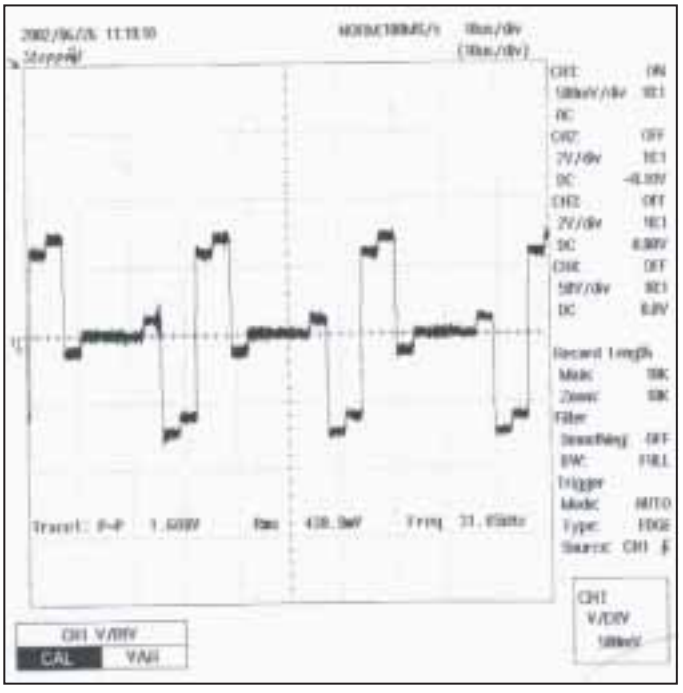
IC12 PIN 31 (CVBS)

SIGNAL WAVEFORM-7

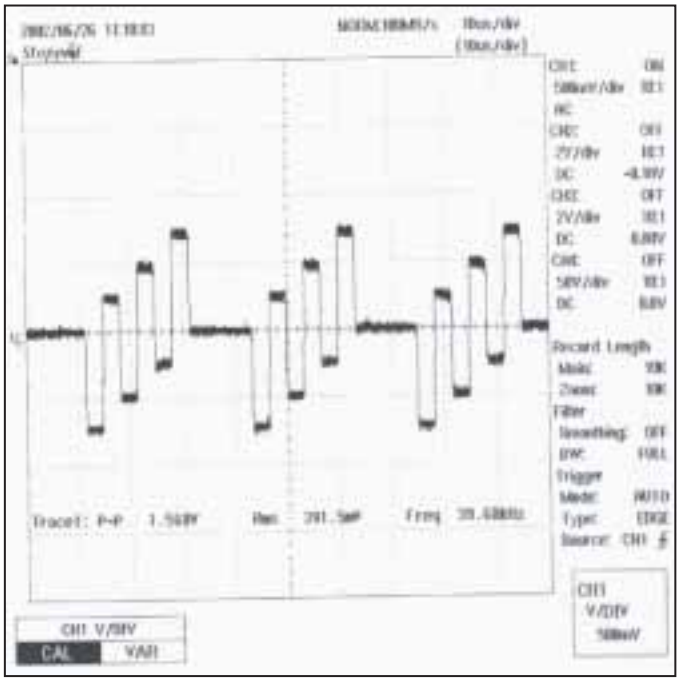
Signal 100% Color bar (Progressive Model)



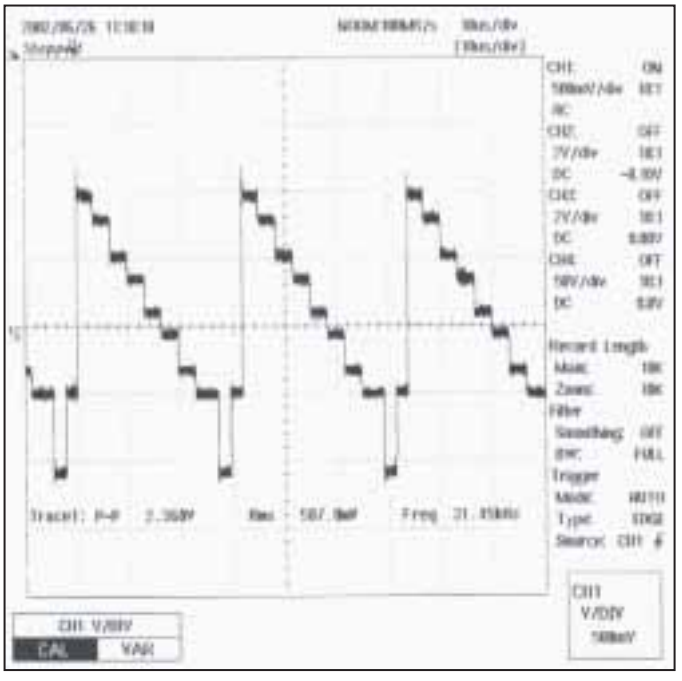
IC12 PIN 33 (CHROMA)



IC12 PIN 19 (Cr)

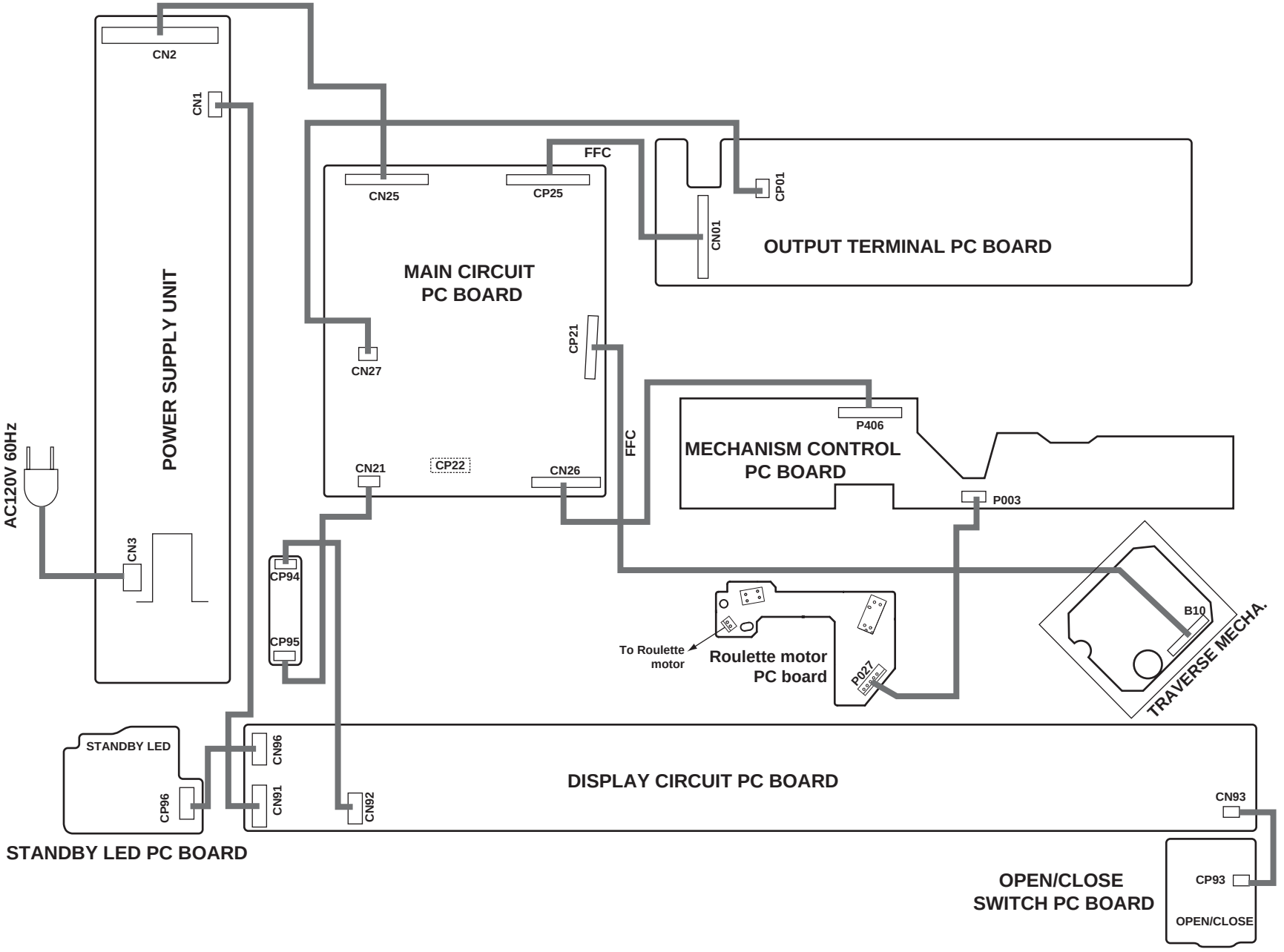


IC12 PIN 22 (Cb)



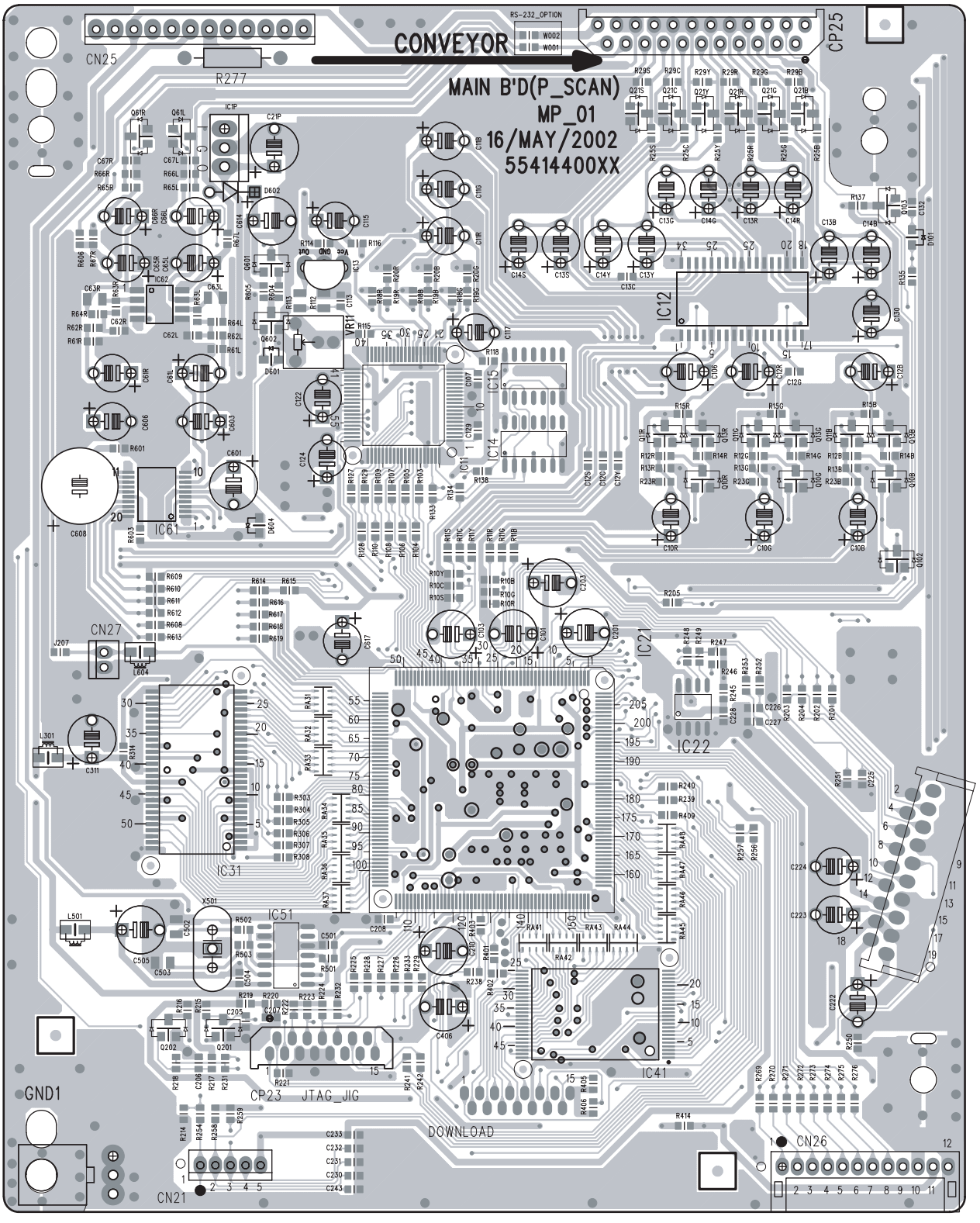
IC12 PIN 25 (CY)

PC BOARD CONNECTION DIAGRAM



PRINTED CIRCUIT BOARD VIEW 1

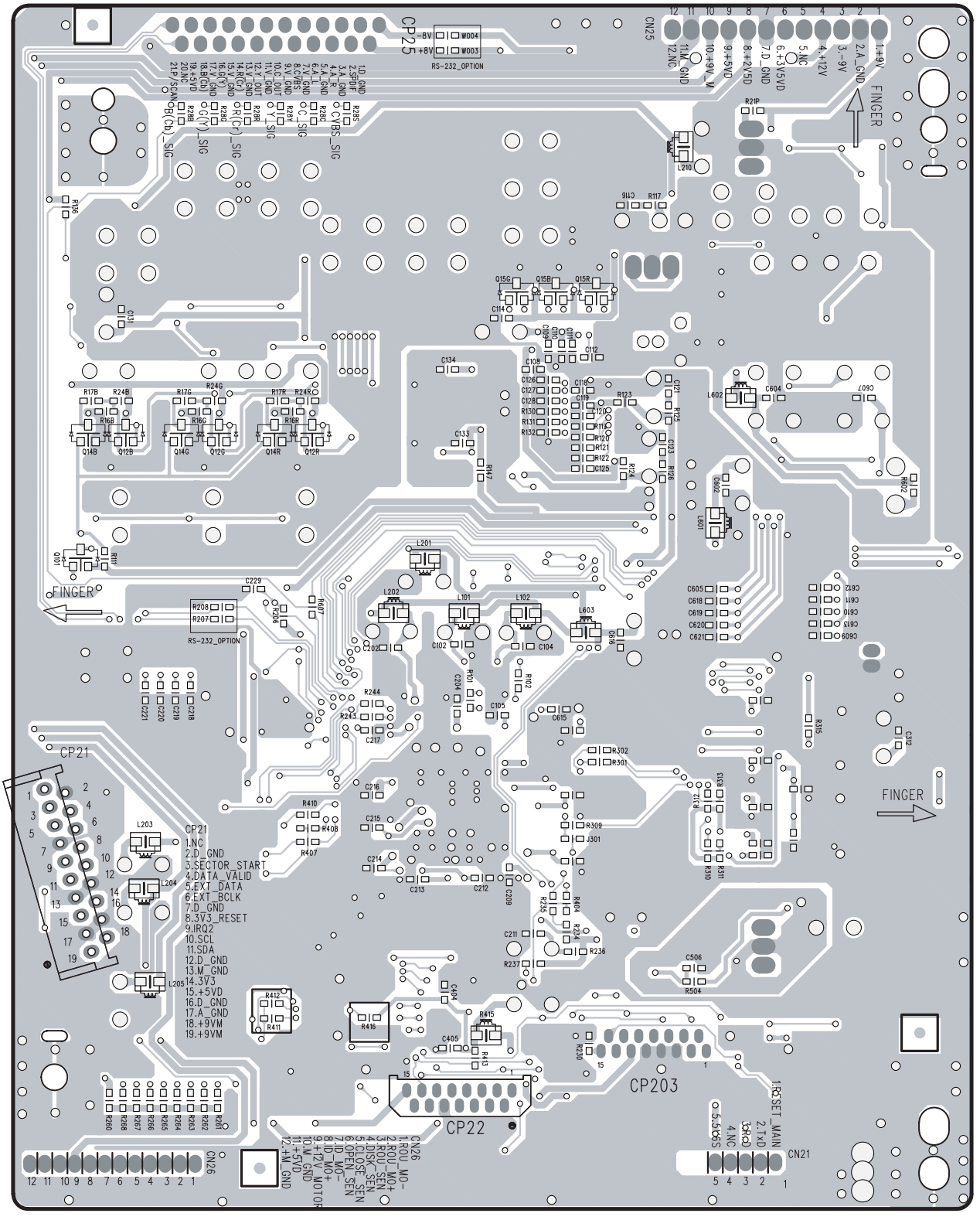
MAIN CIRCUIT PC BOARD



Top pattern and Top component

PRINTED CIRCUIT BOARD VIEW 1

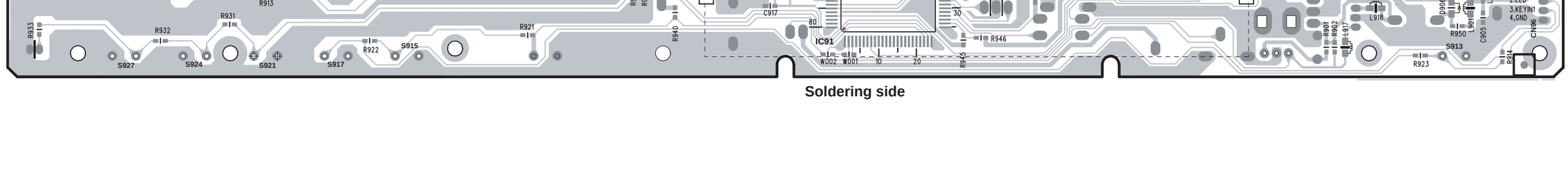
MAIN CIRCUIT PC BOARD



Bottom pattern and Bottom component

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 2

Display circuit PC board

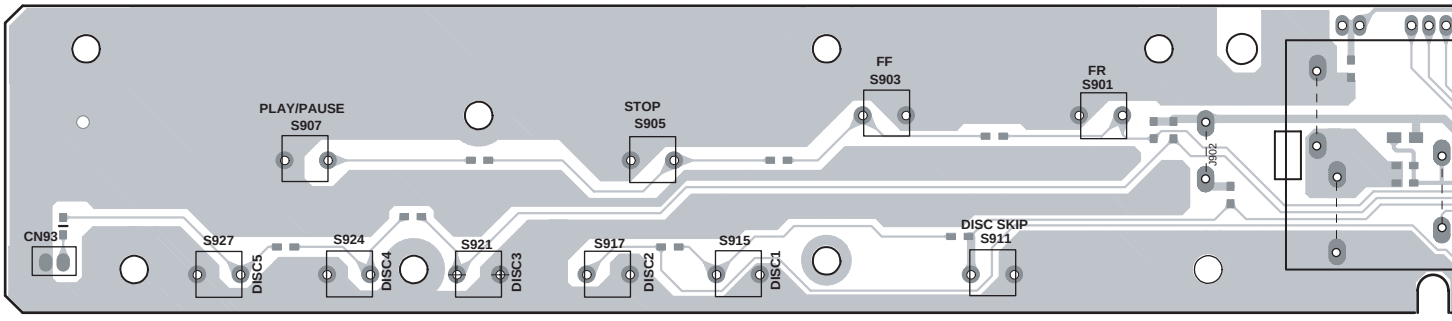


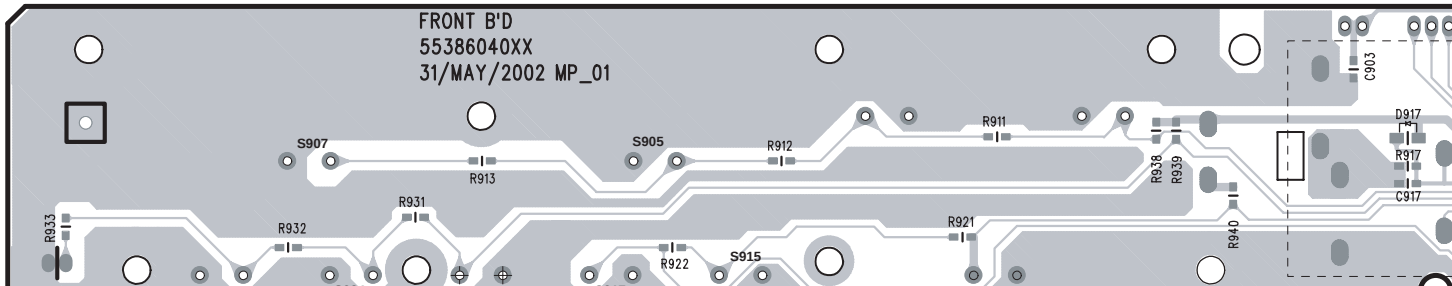
Component side

Soldering side

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 2

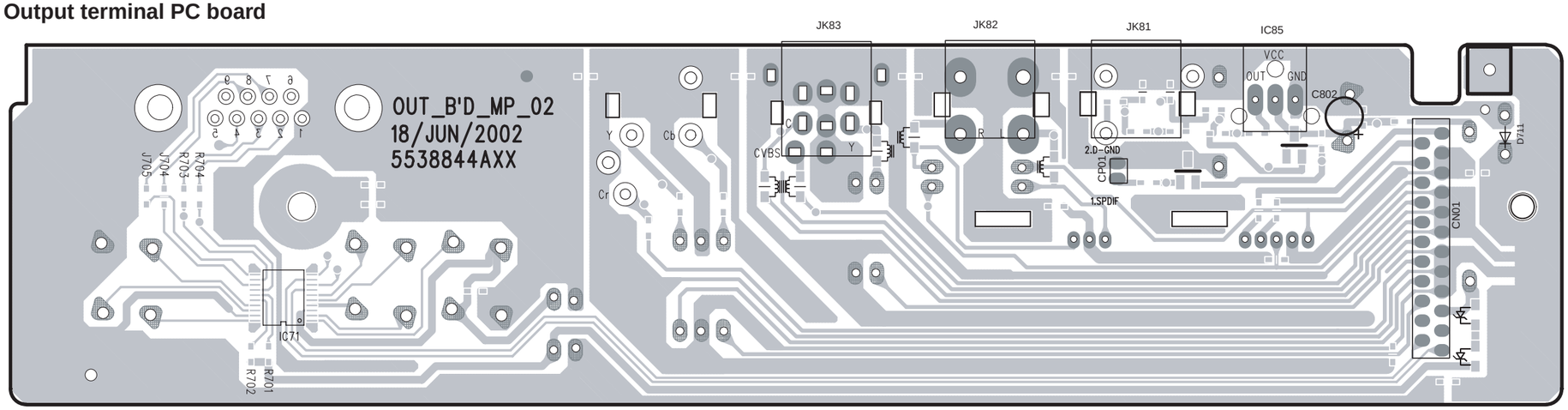
Display circuit PC board



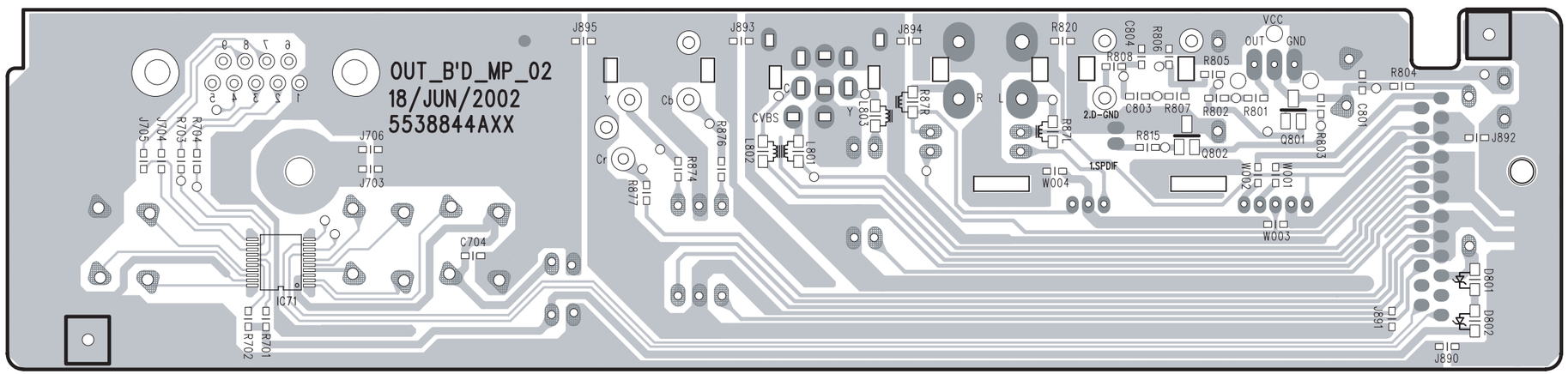


PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 3

Output terminal PC board

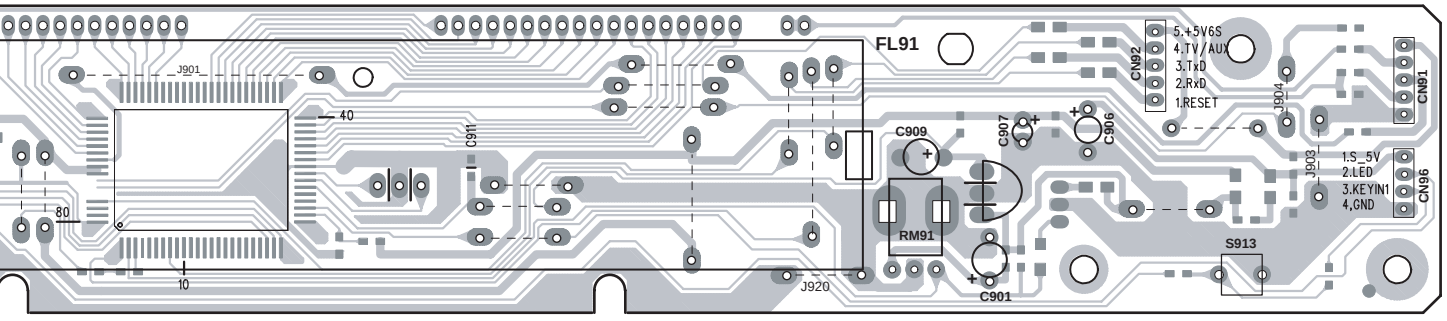


Component side

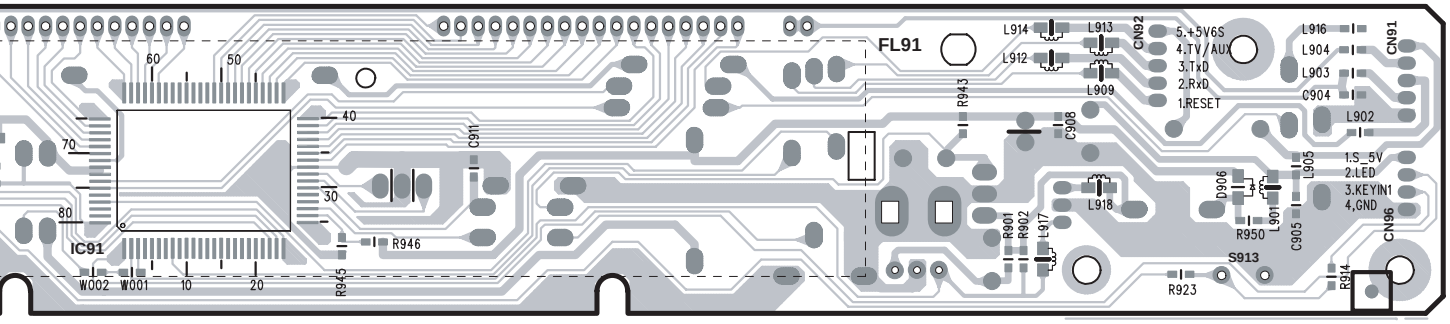


Soldering side

E F G H



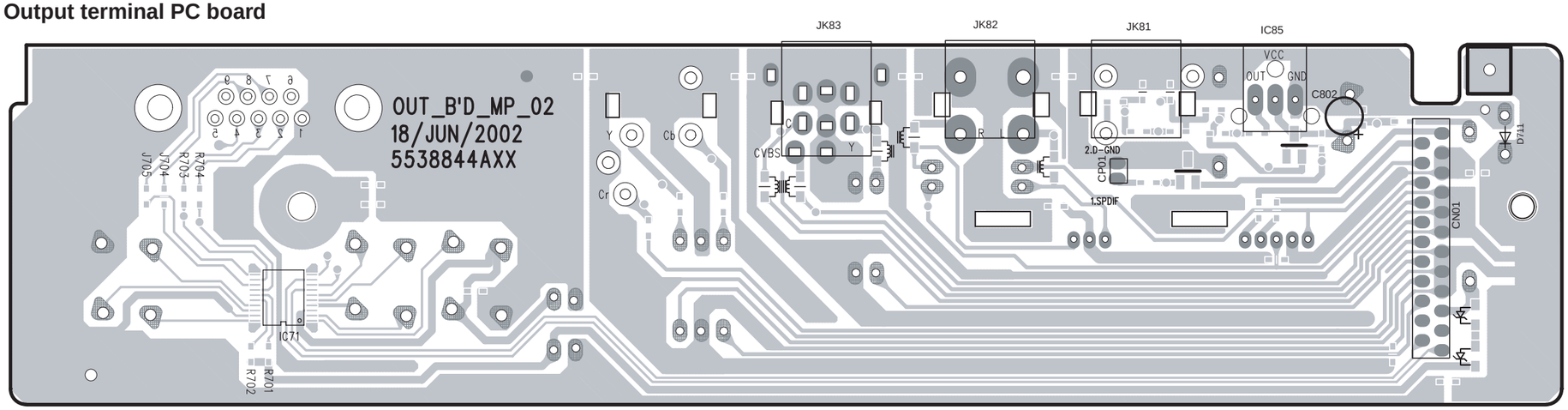
Component side



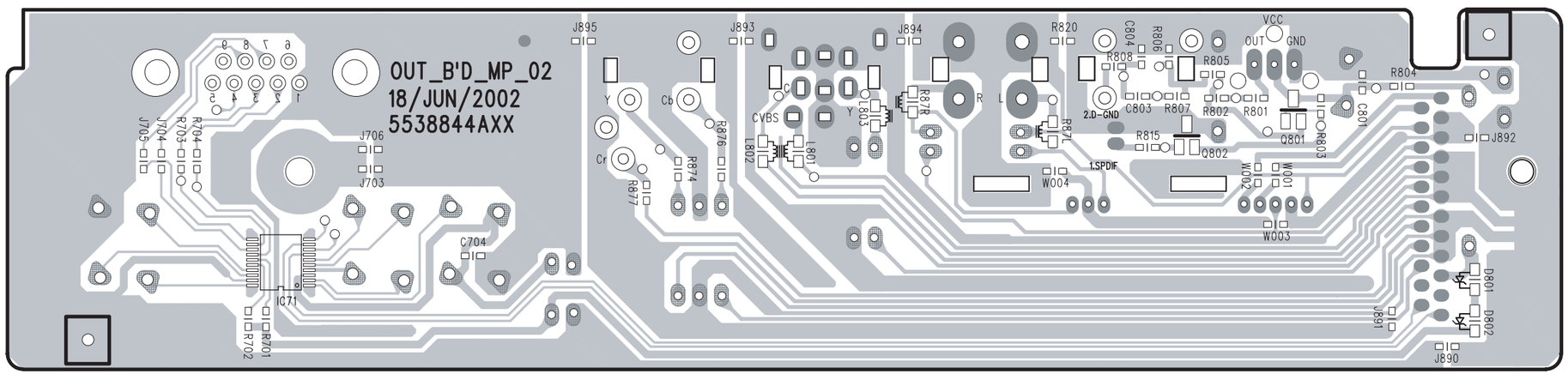
Soldering side

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 3

Output terminal PC board



Component side



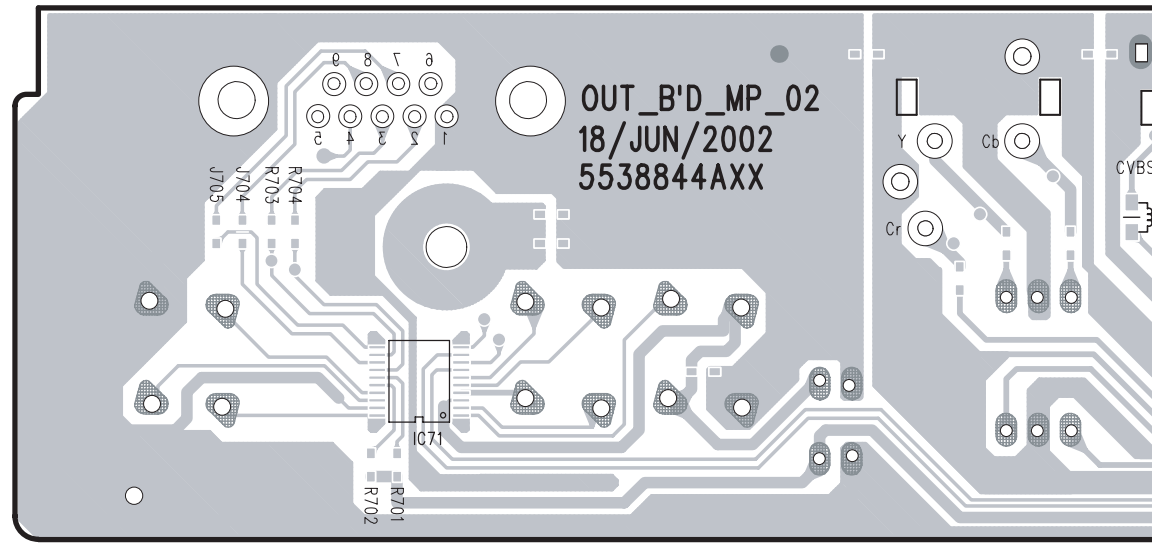
Soldering side

A B C D

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 3

1 2 3 4 5

Output terminal PC board



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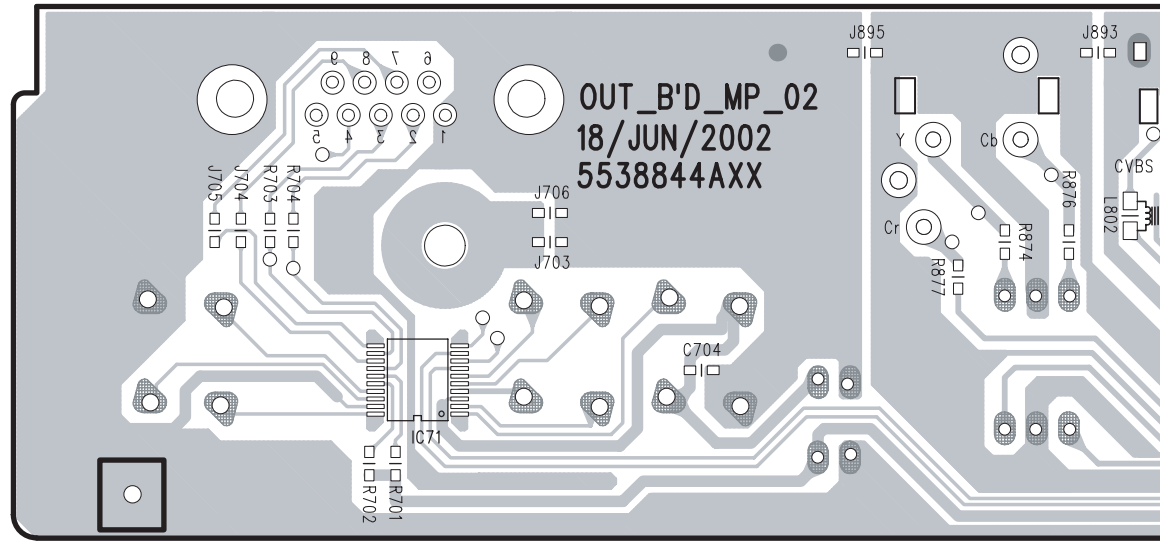
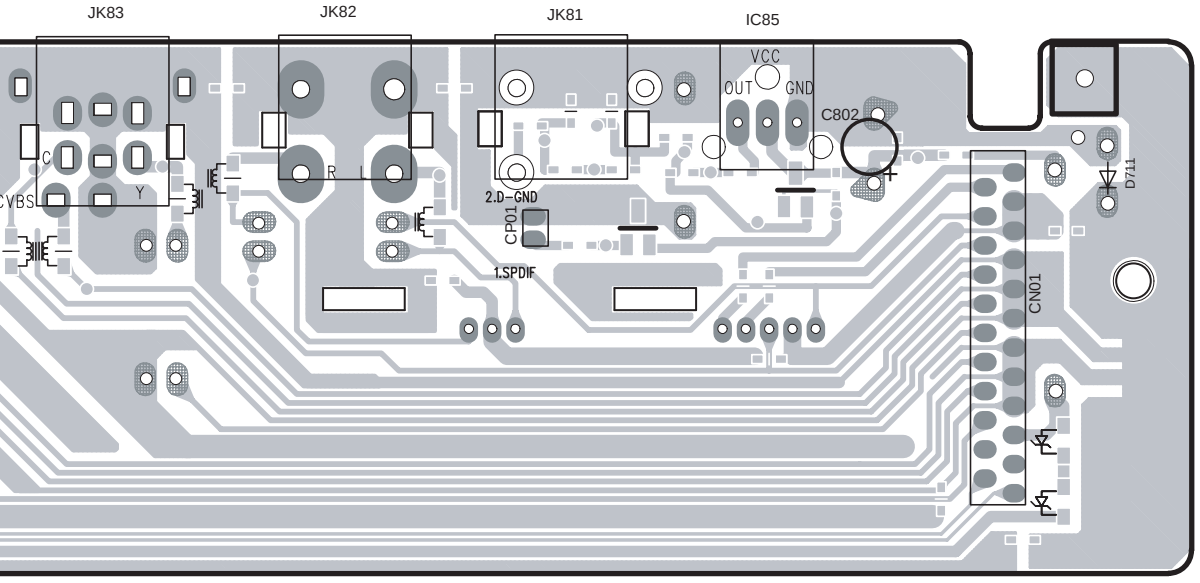
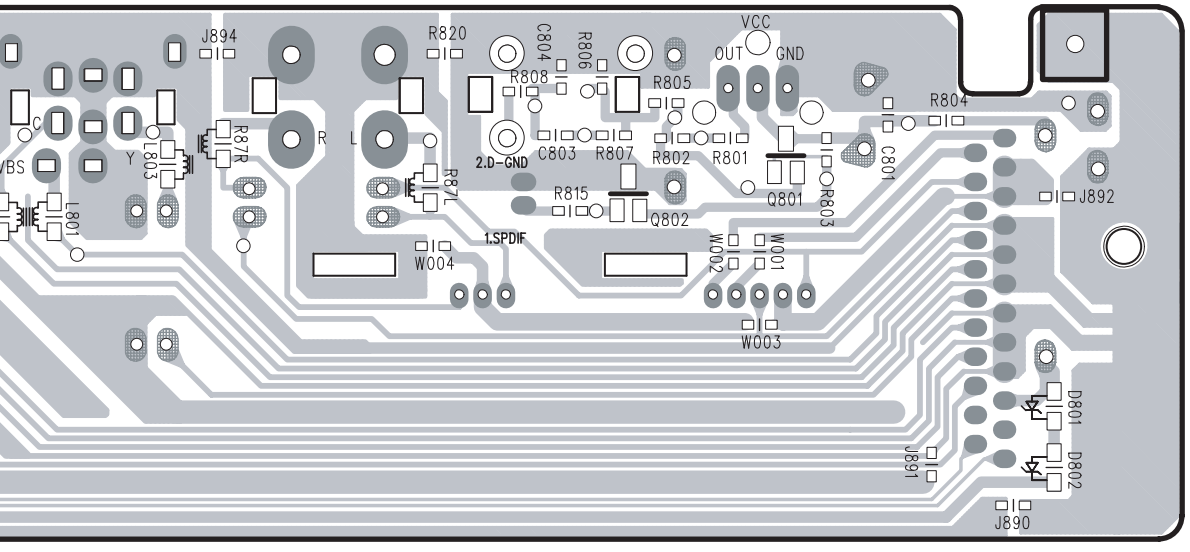


Sc

E F G H



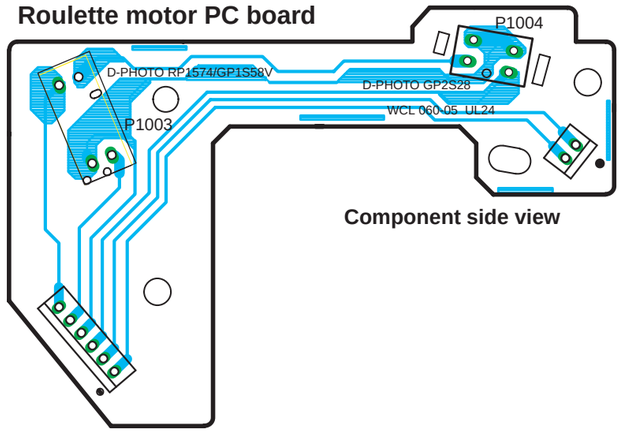
Component side



Soldering side

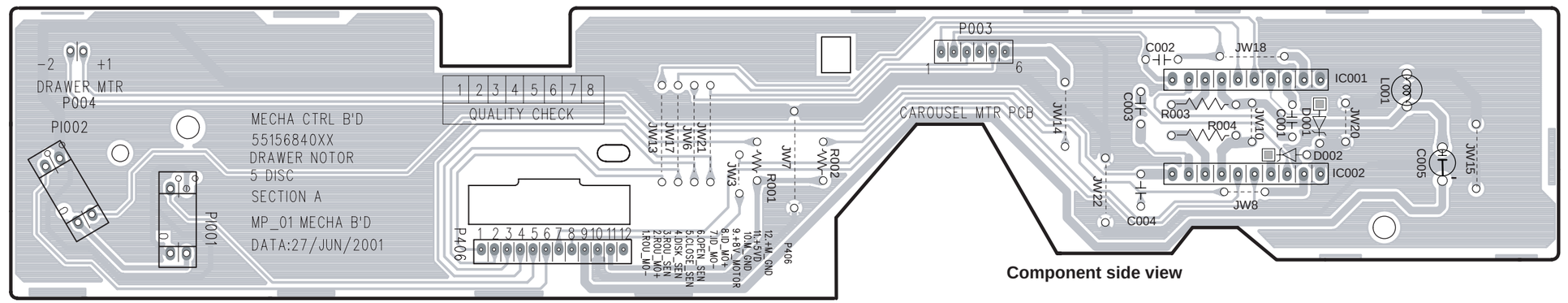
PRINTED CIRCUIT BOARD VIEW 4

Roulette motor PC board

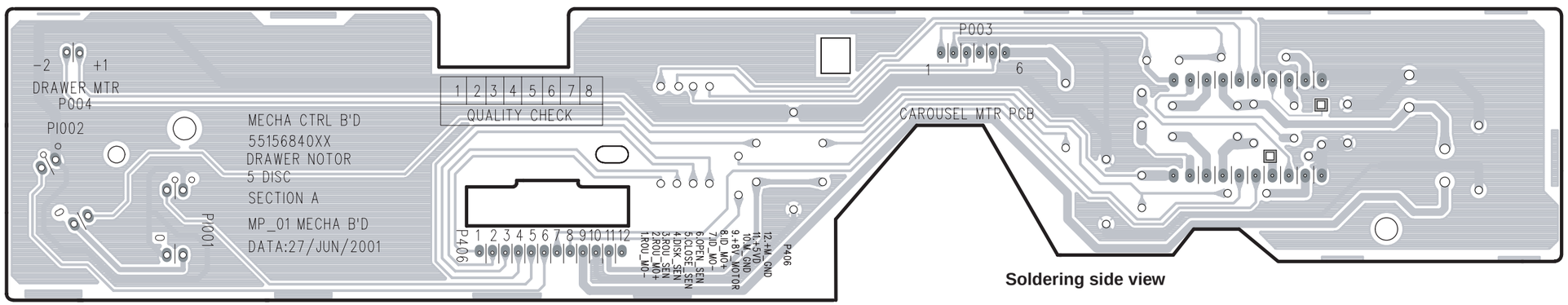


Component side view

Mechanism control PC board



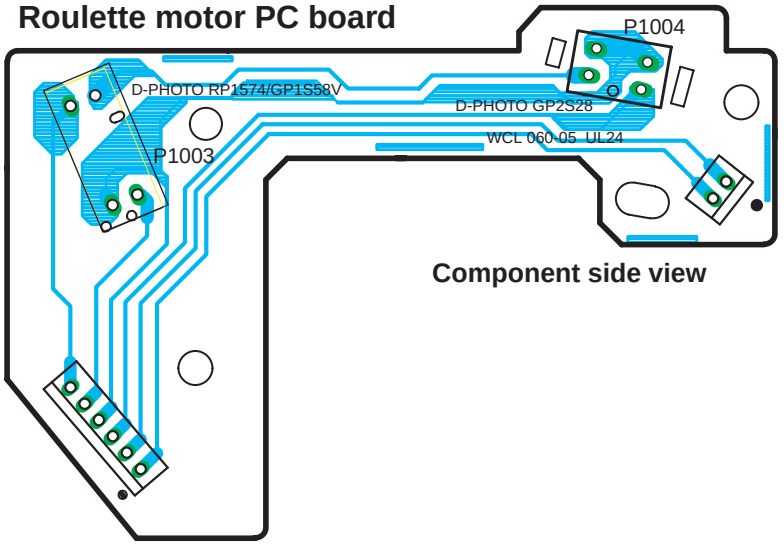
Component side view



Soldering side view

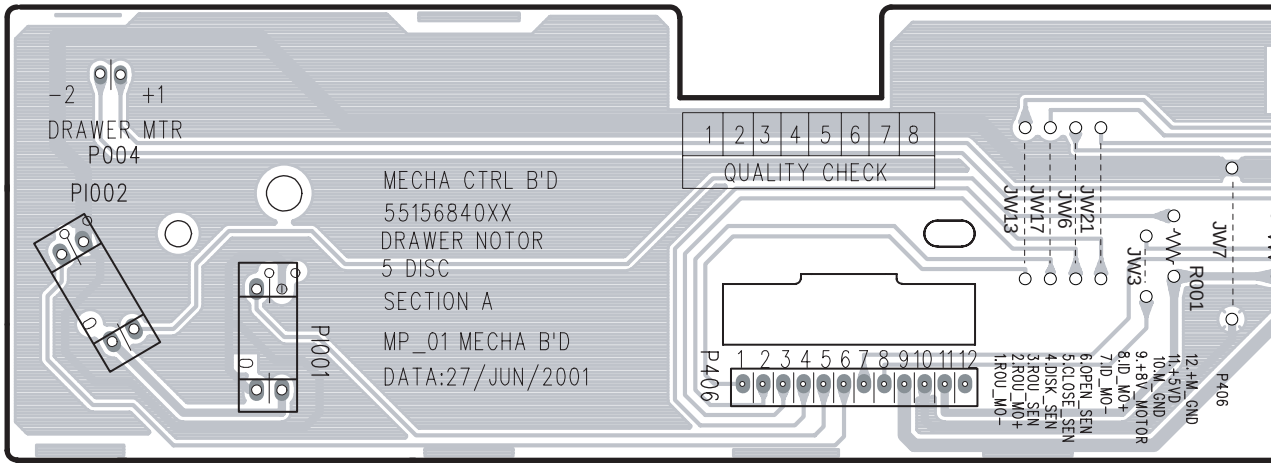
PRINTED CIRCUIT BOARD VIEW 4

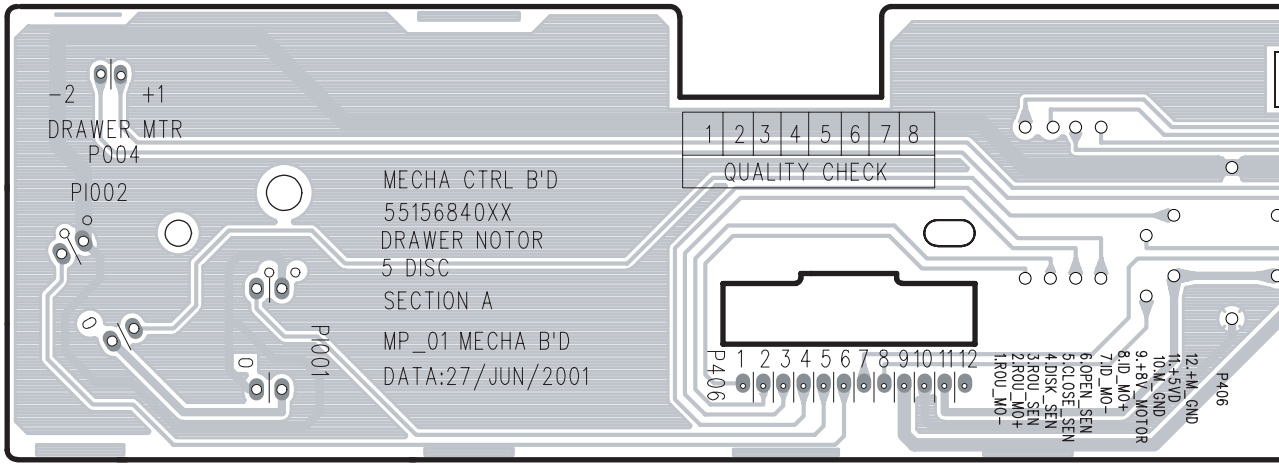
Roulette motor PC board



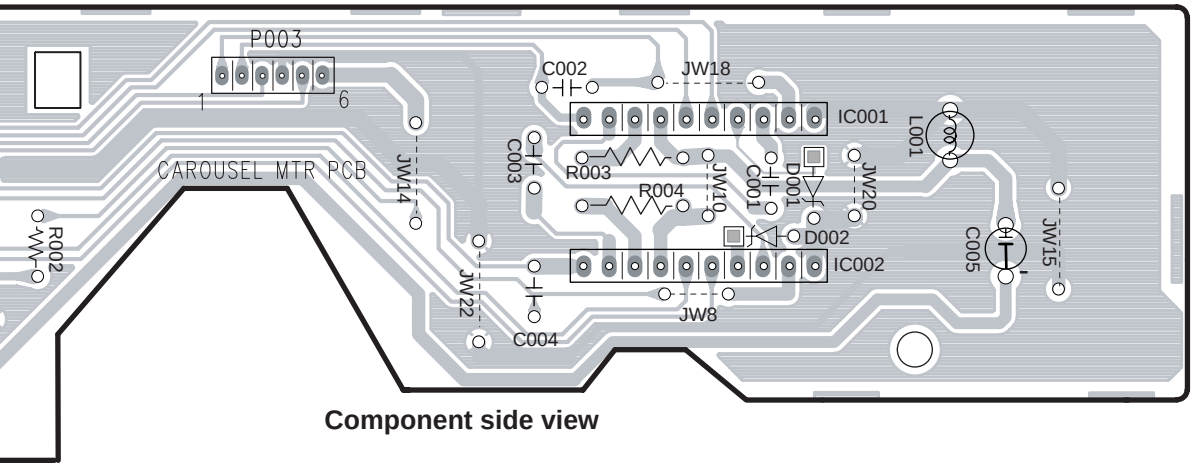
Component side view

Mechanism control PC board

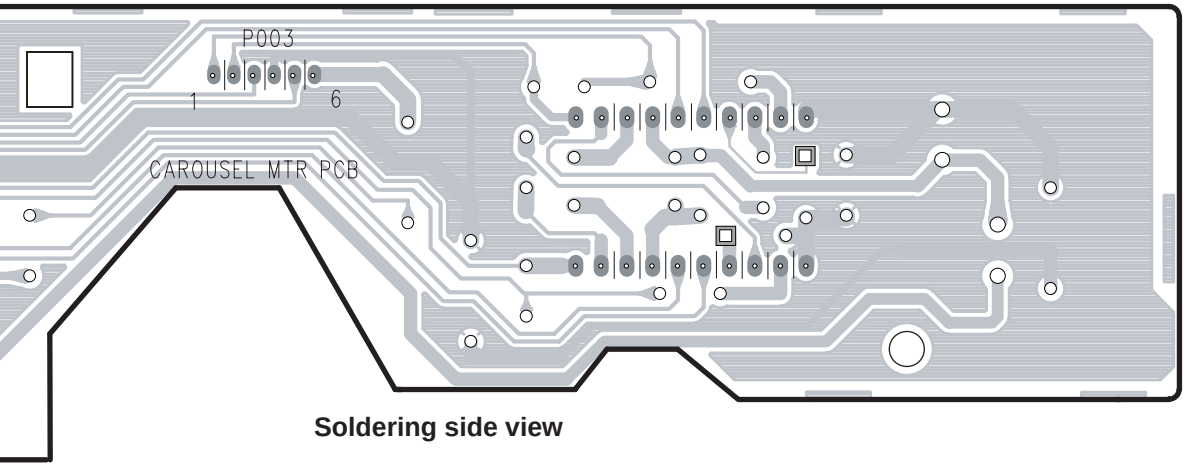




E F G H



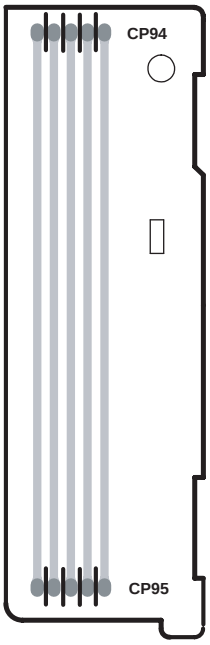
Component side view



Soldering side view

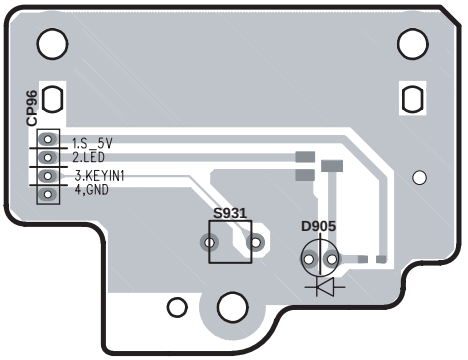
PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW 5

Connection PC board

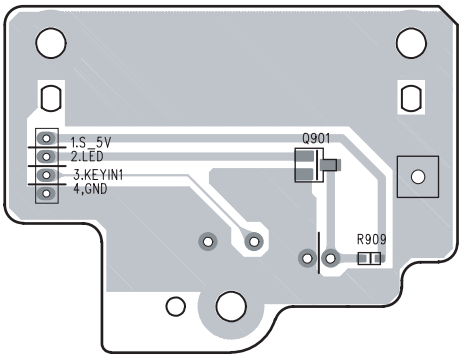


Soldering side

Standby LED PC board

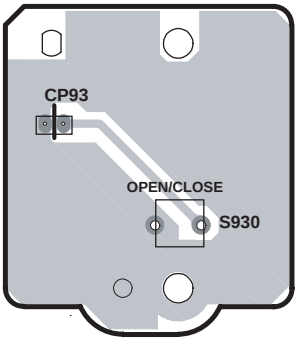


Component side



Soldering side

OPEN/CLOSE Switch PC board



Soldering side

MICROPROCESSOR TERMINAL DESCRIPTION

IC91: CXP82532 -1 (Key, Display, remote controller)

PIN NUMBER	PIN NAME	MAIN FUNCTION	IN/OUT	REMARK
1	PE3/INT3	INPUT FOR EXTERNAL INTERRUPT REQUEST.	I	
2	PE4/RMC	INPUT FOR REMOTE CONTROL RECEIVING CIRCUIT.	I	
3	PE5	-	I	
4	PE6	-	O	
5	PE7/TO	OUTPUT PIN FOR 16-BIT TIME/COUNTER RECTANGULAR WAVEFORM.	O	
6	PBO/CINT	EXTERNAL CAPTURE INPUT FOR 16-BIT TIME/COUNTER.	I/O	
7	PBI/'CSO	CHIP SELLECT INPUT FOR SERIAL INTERFACE(CH0).	I/O	
8	PB2/'SCKO	SERIAL CLOCK (CH0) INPUT/OUTPUT.	I/O	
9	PB3/SIO	SERIAL DATA (CH0) INPUT.	I/O	
10	PB4/SOO	SERIAL DATA (CH0) OUTPUT.	I/O	
11	PB5/'SCK1	SERIAL CLOCK (CH1) INPUT/OUTPUT.	I/O	
12	PB6/SI1	SERIAL DATA (CH1) INPUT.	I/O	
13	PB7/SO1	SERIAL DATA (CH1) OUTPUT.	O	
14	PCO/KRO	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
15	PC1/KR1	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
16	PC2/KR2	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
17	PC3/KR3	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
18	PC4/KR4	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
19	PC5/KR5	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
20	PC6/KR6	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
21	PC7/KR7	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
22	PA0/AN0	ANALOG INPUT TO A/D CONVERTER.	I/O	
23	PA1/AN1	ANALOG INPUT TO A/D CONVERTER.	I/O	
24	PA2/AN2	ANALOG INPUT TO A/D CONVERTER.	I/O	
25	PA3/AN3	ANALOG INPUT TO A/D CONVERTER.	I/O	
26	PA4/AN4	ANALOG INPUT TO A/D CONVERTER.	I/O	
27	PA5/AN5	ANALOG INPUT TO A/D CONVERTER.	I/O	
28	PA6/AN6	ANALOG INPUT TO A/D CONVERTER.	I/O	
29	PA7/AN7	ANALOG INPUT TO A/D CONVERTER.	I/O	
30	'RESET	SYSTEM RESET,ACTIVE "L"	I/O	
31	EXTAL	CONNECTION FOR SYSTEM CLOCK OSCILLATION CRYSTAL.	I	
32	XTAL	CONNECTION FOR SYSTEM CLOCK OSCILLATION CRYSTAL.	-	
33	VSS	GND	-	
34	PD0/S0	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
35	PD1/S1	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
36	PD2/S2	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
37	PD3/S3	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
38	PD4/S4	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
39	PD5/S5	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
40	PD6/S6	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
41	PD7/S7	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
42	PF0/S8	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
43	PF1/S9	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
44	PF2/S10	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
45	PF3/S11	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
46	PF4/S12	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
47	PF5/S13	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
48	PF6/S14	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
49	PF7/S15	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
50	S16	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
51	S17	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
52	S18	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
53	S19	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
54	S20	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
55	T15/S21	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
56	T14/S22	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
57	T13/S23	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
58	T12/S24	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	

Microprocessor terminal description

FRONT IC91 CXP82532 PIN LIST

PIN NUMBER	PIN NAME	MAIN FUNCTION	IN/OUT	REMARK
1	PE3/INT3	INPUT FOR EXTERNAL INTERRUPT REQUEST.	I	
2	PE4/RMC	INPUT FOR REMOTE CONTROL RECEIVING CIRCUIT.	I	
3	PE5	-	I	
4	PE6	-	O	
5	PE7/TO	OUTPUT PIN FOR 16-BIT TIME/COUNTER RECTANGULAR WAVEFORM.	O	
6	PBO/CINT	EXTERNAL CAPTURE INPUT FOR 16-BIT TIME/COUNTER.	I/O	
7	PBI/'CSO	CHIP SELLECT INPUT FOR SERIAL INTERFACE(CH0).	I/O	
8	PB2/'SCKO	SERIAL CLOCK (CH0) INPUT/OUTPUT.	I/O	
9	PB3/SIO	SERIAL DATA (CH0) INPUT.	I/O	
10	PB4/SOO	SERIAL DATA (CH0) OUTPUT.	I/O	
11	PB5/'SCK1	SERIAL CLOCK (CH1) INPUT/OUTPUT.	I/O	
12	PB6/SI1	SERIAL DATA (CH1) INPUT.	I/O	
13	PB7/SO1	SERIAL DATA (CH1) OUTPUT.	O	
14	PCO/KRO	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
15	PC1/KR1	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
16	PC2/KR2	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
17	PC3/KR3	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
18	PC4/KR4	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
19	PC5/KR5	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
20	PC6/KR6	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
21	PC7/KR7	KEY RETURN INPUT FOR FDP SEGMENT SIGNAL WITCH PERFORMS KEY SCANNING.	I/O	
22	PA0/AN0	ANALOG INPUT TO A/D CONVERTER.	I/O	
23	PA1/AN1	ANALOG INPUT TO A/D CONVERTER.	I/O	
24	PA2/AN2	ANALOG INPUT TO A/D CONVERTER.	I/O	
25	PA3/AN3	ANALOG INPUT TO A/D CONVERTER.	I/O	
26	PA4/AN4	ANALOG INPUT TO A/D CONVERTER.	I/O	
27	PA5/AN5	ANALOG INPUT TO A/D CONVERTER.	I/O	
28	PA6/AN6	ANALOG INPUT TO A/D CONVERTER.	I/O	
29	PA7/AN7	ANALOG INPUT TO A/D CONVERTER.	I/O	
30	'RESET	SYSTEM RESET,ACTIVE "L"	I/O	
31	EXTAL	CONNECTION FOR SYSTEM CLOCK OSCILLATION CRYSTAL.	I	
32	XTAL	CONNECTION FOR SYSTEM CLOCK OSCILLATION CRYSTAL.	-	
33	VSS	GND	-	
34	PD0/S0	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
35	PD1/S1	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
36	PD2/S2	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
37	PD3/S3	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
38	PD4/S4	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
39	PD5/S5	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
40	PD6/S6	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
41	PD7/S7	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
42	PF0/S8	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
43	PF1/S9	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
44	PF2/S10	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
45	PF3/S11	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
46	PF4/S12	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
47	PF5/S13	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
48	PF6/S14	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
49	PF7/S15	8-BIT DEDICATED OUTPUT PORT/SEGMENT SIGNAL OUTPUT FOR FDP.	O	
50	S16	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
51	S17	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
52	S18	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
53	S19	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
54	S20	SEGMENT SIGNAL OUTPUT FOR FDP.	O	
55	T15/S21	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
56	T14/S22	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
57	T13/S23	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
58	T12/S24	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	

PIN NUMBER	PIN NAME	MAIN FUNCTION	IN/OUT	REMARK
59	T11/S25	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
60	T10/S26	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
61	T9/S27	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
62	T8/S28	DUAL PURPOSE OUTPUT FOR FDP TIMING AND SEGMENT SIGNAL.	O	
63	T7	TIMING SIGNAL OUTPUT FOR FDP	O	
64	T6	TIMING SIGNAL OUTPUT FOR FDP	O	
65	T5	TIMING SIGNAL OUTPUT FOR FDP	O	
66	T4	TIMING SIGNAL OUTPUT FOR FDP	O	
67	T3	TIMING SIGNAL OUTPUT FOR FDP	O	
68	T2	TIMING SIGNAL OUTPUT FOR FDP	O	
69	T1	TIMING SIGNAL OUTPUT FOR FDP	O	
70	T0	TIMING SIGNAL OUTPUT FOR FDP	O	
71	VFDP	PROVIDES VOLTAGE FOR FDP	-	
72	VDD	POSITIVE POWER SUPPLY PIN.	-	
73	VPP	POSITIVE POWER SUPPLY FOR THE PROGRAMMABLE ON-CHIP PROM.	-	
74	PG0	4-BIT IN/OUTPUT PORT;SINGLE BIT ADDRESSABLE	I/O	
75	PG1	4-BIT IN/OUTPUT PORT;SINGLE BIT ADDRESSABLE	I/O	
76	PG2	4-BIT IN/OUTPUT PORT;SINGLE BIT ADDRESSABLE	I/O	
77	PG3	4-BIT IN/OUTPUT PORT;SINGLE BIT ADDRESSABLE	I/O	
78	PE0/'EC0/INT0	INPUT FOR EXTERNAL INTERRUPT REQUEST.	I	
79	PE1/'EC1/INT1	INPUT FOR EXTERNAL INTERRUPT REQUEST.	I	
80	PE2/IN2	INPUT FOR EXTERNAL INTERRUPT REQUEST.	I	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-1

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
1	PIOs and communication	PIO2[5]	PIO2[5]	-	-	I/O	
2	PIOs and communication	PIO2[6]	PIO2[6]	-	-	I/O	
3	PIOs and communication	PIO2[7]	PIO2[7]	-	-	I/O	
4	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
5	-	VSS	GROUND	-	-	POWER	
6	PIOs and communication	PIO3[0]	PIO3[0]	PARA_DATA[0]	-	I/O	
7	PIOs and communication	PIO3[1]	PIO3[1]	PARA_DATA[1]	-	I/O	
8	PIOs and communication	PIO3[2]	PIO3[2]	PARA_DATA[2]	-	I/O	
9	PIOs and communication	PIO3[3]	PIO3[3]	PARA_DATA[3]	-	I/O	
10	PIOs and communication	PIO3[4]	PIO3[4]	CAPTURE_IN1 PARA_DATA[4]	UART1 RTS(RTS1)	I/O	
11	PIOs and communication	PIO3[5]	PIO3[5]	CAPTURE_IN2 PARA_DATA[5]	UART2 RTS(RTS2)	I/O	
12	PIOs and communication	PIO3[6]	PIO3[6]	PARA_DATA[6] UART1 CTS(CTS1)	COMP_OUT1	I/O	
13	PIOs and communication	PIO3[7]	PIO3[7]	PARA_DATA[7] UART1 CTS(CTS2)	COMP_OUT0	I/O	
14	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
15	-	VSS	GROUND	-	-	POWER	
16	Front-end	B_DATA	I2S DATA	SER_DATA	-	I	
17	Front-end	B_BCLK	I2C BIT CLOCK	SER_BCLK	-	I	
18	Front-end	B_FLAG	I2S ERROR FLAG DVD	SER_VALID	-	I	
19	Front-end	B_SYNC	I2S SECTOR/ABS TIME	SER_SYNC	-	I	
20	RESERVED	RESERVED	-	B_WCLK	-	I/O	
				NRSS_CLOCK1			
21	RESERVED	RESERVED	-	B_V4	NRSS_OUT 2and6	I/O	
22	RESERVED	RESERVED	-	NRSS_IN7	-	I/O	
23	RESERVED	VDD_RGB	VDDA_RGB=2.5V	-	-	POWER 2.5V	
24	RESERVED	VSS_RGB	VSSA_RGB=GND	-	-	POWER GND	
25	Video DAC	B_OUT	B_OUT	-	-	O	
26	Video DAC	G_OUT	G_OUT	-	-	O	
27	Video DAC	R_OUT	R_OUT	-	-	O	
28	Video DAC	V_REF_RGB	V_REF_DAC_RGB	-	-	I	
29	Video DAC	I_REF_RGB	I_REF_DAC_RGB	-	-	I	
30	Video DAC	VDD_YCC	VDDA_YCC=2.5V	-	-	POWER 2.5V	
31	Video DAC	VSS_YCC	VSSA_YCC=GND	-	-	POWER GND	
32	Video DAC	Y_OUT	Y_OUT	-	-	O	
33	Video DAC	C_OUT	C_OUT	-	-	O	
34	Video DAC	CV_OUT	CV_OUT	-	-	O	
35	Video DAC	V_REF_YCC	V_REF_DAC_YCC	-	-	I	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-2

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
36	Video DAC	I_REF_YCC	I_REF_DAC_YCC	-	-	I	
37	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
38	-	VSS	GROUND	-	-	POWER	
39	PIOs and communication	PIO4[0]	PIO4[0]	-	YC[0]	I/O	
40	PIOs and communication	PIO4[1]	PIO4[1]	-	YC[1]	I/O	
41	PIOs and communication	PIO4[2]	PIO4[2]	-	YC[2]	I/O	
42	PIOs and communication	PIO4[3]	PIO4[3]	-	YC[3]	I/O	
43	PIOs and communication	PIO4[4]	PIO4[4]	-	YC[4]	I/O	
44	PIOs and communication	PIO4[5]	PIO4[5]	-	YC[5]	I/O	
45	PIOs and communication	PIO4[6]	PIO4[6]	-	YC[6]	I/O	
46	PIOs and communication	PIO4[7]	PIO4[7]	-	YC[7]	I/O	
47	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
48	AUDIO_DAC	VDD_PCM	VDD FREQ SYNTHE=2.5V	-	-	POWER 2.5V	
49	AUDIO_DAC	VSS_PCM	VSS FREQ SYNTHE=GND	-	-	POWER GND	
50	-	VSS	GROUND	-	-	POWER	
51	AUDIO_DAC	DAC_SCLK	OVER SAMPLING CLK	-	EXT_AUD_CLK	O	
52	AUDIO_DAC	DAC_PCMOUT0	PCM_OUT0	-	EXT_AUD_DATA	O	
53	AUDIO_DAC	DAC_PCMOUT1	PCM_OUT1	EXT_AUD_REQ	-	I/O	
54	AUDIO_DAC	DAC_PCMOUT2	PCM_OUT2	-	-	O	
55	AUDIO_DAC	DAC_PCMCLK	PCM_CLOCK	-	-	I/O	
56	AUDIO_DAC	DAC_LRCLK	LEFT/RIGHT CLK	-	EXT_AUD_WCLK	O	
57	AUDIO_DAC	SPDIF_OUT	SPDIF_OUT	-	-	O	
58	Share memory interface	SMI_ADR[4]	ADDRESS BUS SDRAM	-	-	O	
59	Share memory interface	SMI_ADR[5]	ADDRESS BUS SDRAM	-	-	O	
60	Share memory interface	SMI_ADR[6]	ADDRESS BUS SDRAM	-	-	O	
61	Share memory interface	SMI_ADR[7]	ADDRESS BUS SDRAM	-	-	O	
62	Share memory interface	SMI_ADR[8]	ADDRESS BUS SDRAM	-	-	O	
63	Share memory interface	SMI_ADR[9]	ADDRESS BUS SDRAM	-	-	O	
64	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
65	-	VSS	GROUND	-	-	POWER	
66	Share memory interface	SMI_ADR[0]	ADDRESS BUS SDRAM	-	-	O	
67	Share memory interface	SMI_ADR[1]	ADDRESS BUS SDRAM	-	-	O	
68	Share memory interface	SMI_ADR[2]	ADDRESS BUS SDRAM	-	-	O	
69	Share memory interface	SMI_ADR[3]	ADDRESS BUS SDRAM	-	-	O	
70	Share memory interface	SMI_ADR[10]	ADDRESS BUS SDRAM	-	-	O	
71	Share memory interface	SMI_ADR[11]	ADDRESS BUS SDRAM	-	-	O	
72	Share memory interface	SMI_ADR[12]	ADDRESS BUS SDRAM	-	-	O	
73	Share memory interface	SMI_ADR[13]	ADDRESS BUS SDRAM	-	-	O	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-3

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
74	Share memory interface	SMI_CS[0]	CHIP SELECT BANK0	-	-	O	
75	Share memory interface	SMI_CS[1]	CHIP SELECT BANK1	-	-	O	
76	Share memory interface	SMI_RAS	RAS SDRAM	-	-	O	
77	Share memory interface	SMI_CAS	CAS SDRAM	-	-	O	
78	Share memory interface	SMI_WE	SDRAM WRITE ENABLE	-	-	O	
79	Share memory interface	SMI_DQML	DQ MASK EN LOW	-	-	O	
80	Share memory interface	SMI_DQMU	DQ MASK EN UP	-	-	O	
81	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
82	Share memory interface	SMI_CLKIN	SDRAM CLOCK IN	-	-	O	
83	-	VSS	GROUND	-	-	POWER	
84	Share memory interface	SMI_DATA[0]	DATA BUS SDRAM	-	-	I/O	
85	Share memory interface	SMI_DATA[1]	DATA BUS SDRAM	-	-	I/O	
86	Share memory interface	SMI_DATA[2]	DATA BUS SDRAM	-	-	I/O	
87	Share memory interface	SMI_DATA[3]	DATA BUS SDRAM	-	-	I/O	
88	Share memory interface	SMI_DATA[4]	DATA BUS SDRAM	-	-	I/O	
89	Share memory interface	SMI_DATA[5]	DATA BUS SDRAM	-	-	I/O	
90	Share memory interface	SMI_DATA[6]	DATA BUS SDRAM	-	-	I/O	
91	Share memory interface	SMI_DATA[7]	DATA BUS SDRAM	-	-	I/O	
92	Share memory interface	SMI_DATA[8]	DATA BUS SDRAM	-	-	I/O	
93	Share memory interface	SMI_DATA[9]	DATA BUS SDRAM	-	-	I/O	
94	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
95	Share memory interface	SMI_CLKOUT	SDRAM CLOCK OUT	-	-	O	
96	-	VSS	GROUND	-	-	POWER	
97	Share memory interface	SMI_DATA[10]	DATA BUS SDRAM	-	-	I/O	
98	Share memory interface	SMI_DATA[11]	DATA BUS SDRAM	-	-	I/O	
99	Share memory interface	SMI_DATA[12]	DATA BUS SDRAM	-	-	I/O	
100	Share memory interface	SMI_DATA[13]	DATA BUS SDRAM	-	-	I/O	
101	Share memory interface	SMI_DATA[14]	DATA BUS SDRAM	-	-	I/O	
102	Share memory interface	SMI_DATA[15]	DATA BUS SDRAM	-	-	I/O	
103	RESERVED	RESERVED		-	-	I/O	
104	RESERVED	RESERVED		-	-	I/O	
105	RESERVED	RESERVED		-	-	I/O	
106	RESERVED	RESERVED		-	-	O	
107	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
108	-	VSS	GROUND	-	-	POWER	
109	JTAG	TRAT4	TEST RESET	-	-	I	
110	JTAG	TMS	TEST MODE SELECT	-	-	I	
111	JTAG	TDO	TEAT DATA OUT	-	-	O	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-4

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
112	JTAG	TDI	TEST DATA IN	-	-	I	
113	JTAG	TCK	TEST CLOCK	-	-	I	
114	TIMER	PWM2	PULSE WITDH MODULA2	VSYNC	-	I/O	
115	TIMER	PWM1	PULSE WITDH MODULA1	BOOT FROM ROM3	-	I/O	
116	TIMER	PWM0	PULSE WITDH MODULA0	HSYNC	-	I/O	
117	EMI Interface	CPU_OE	OUTPUT_ENABLE	-	-	I/O	
118	EMI Interface	CPU_RAM_CLK	SDRAM CLOCK	-	-	O	
119	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
120	CLOCK & RESET	PIX_CLK	27 MHz main clock	-	-	I	
121	-	VSS	GROUND	-	-	POWER	
122	CLOCK & RESET	VDD_PLL	VDD PLL=2.5V	-	-	POWER 2.5V	
123	CLOCK & RESET	VSS_PLL	GND PLL=GND	-	-	POWER GND	
124	CLOCK & RESET	RESET	CHIP RESET	-	-	I	
125	INTERRUPT	IRQ2[2]	IRQ[2](MD_IRQ)	-	-	I	
126	INTERRUPT	IRQ2[1]	IRQ[1](ATAPI IRQ)	-	-	I	
127	INTERRUPT	IRQ2[0]	IRQ[0](SERVO_IRQ)	-	-	I	
128	EMI Interface	CPU_BE[0]	BYTE0 ENABLE	-	DQM[0]	O	
129	EMI Interface	CPU_BE[1]	BYTE1 ENABLE	-	DQM[1]	O	
130	EMI Interface	CPU_RW	READ-NOT WRITE	-	NOT_SDRAM_WE	O	
131	EMI Interface	CPU_WATE	WATE STATE	-	-	I	
132	EMI Interface	CPU_CE[4]	CHIP SEL.BANK3	-	CS_SBU_BANK3	O	
133	EMI Interface	CPU_CE[3]	CHIP SEL.BANK2	-	-	O	
134	EMI Interface	CPU_CE[2]	CHIP SEL.BANK1	-	-	O	
135	EMI Interface	CPU_CE[0]	DARAM_RAS0	-	SDRAM_RAS	O	
136	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
137	-	VSS	GROUND	-	-	POWER	
138	EMI Interface	CPU_RAS1	DARAM RAS	-	NOT_SDARAM_CS1	I/O	
139	EMI Interface	CPU_CAS[0]	DARM CAS0	-	SDARM CAS/CPU_ADR[22]	O	
140	EMI Interface	CPU_CAS[1]	DRAM	-	NOT_SDARM_CS0	O	
141	EMI Interface	CPU_DATA[0]	DATA[0]	-	-	I/O	
142	EMI Interface	CPU_DATA[1]	DATA[1]	-	-	I/O	
143	EMI Interface	CPU_DATA[2]	DATA[2]	-	-	I/O	
144	EMI Interface	CPU_DATA[3]	DATA[3]	-	-	I/O	
145	EMI Interface	CPU_DATA[4]	DATA[4]	-	-	I/O	
146	EMI Interface	CPU_DATA[5]	DATA[5]	-	-	I/O	
147	EMI Interface	CPU_DATA[6]	DATA[6]	-	-	I/O	
148	EMI Interface	CPU_DATA[7]	DATA[7]	-	-	I/O	
149	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-5

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
150	-	VSS	GROUND	-	-	POWER	
151	EMI Interface	CPU_DATA[8]	DATA[8]	-	-	I/O	
152	EMI Interface	CPU_DATA[9]	DATA[9]	-	-	I/O	
153	EMI Interface	CPU_DATA[10]	DATA[10]	-	-	I/O	
154	EMI Interface	CPU_DATA[11]	DATA[11]	-	-	I/O	
155	EMI Interface	CPU_DATA[12]	DATA[12]	-	-	I/O	
156	EMI Interface	CPU_DATA[13]	DATA[13]	-	-	I/O	
157	EMI Interface	CPU_DATA[14]	DATA[14]	-	-	I/O	
158	EMI Interface	CPU_DATA[15]	DATA[15]	-	-	I/O	
159	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
160	-	VSS	GROUND	-	-	POWER	
161	EMI Interface	CPU_ADR[1]	ADR[1]	-	-	O	
162	EMI Interface	CPU_ADR[2]	ADR[2]	-	-	O	
163	EMI Interface	CPU_ADR[3]	ADR[3]	-	-	O	
164	EMI Interface	CPU_ADR[4]	ADR[4]	-	-	O	
165	EMI Interface	CPU_ADR[5]	ADR[5]	-	-	O	
166	EMI Interface	CPU_ADR[6]	ADR[6]	-	-	O	
167	EMI Interface	CPU_ADR[7]	ADR[7]	-	-	O	
168	EMI Interface	CPU_ADR[8]	ADR[8]	-	-	O	
169	EMI Interface	CPU_ADR[9]	ADR[9]	-	-	O	
170	EMI Interface	CPU_ADR[10]	ADR[10]	-	-	O	
171	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
172	-	VSS	GROUND	-	-	POWER	
173	EMI Interface	CPU_ADR[11]	ADR[11]	-	-	O	
174	EMI Interface	CPU_ADR[12]	ADR[12]	-	-	O	
175	EMI Interface	CPU_ADR[13]	ADR[13]	-	-	O	
176	EMI Interface	CPU_ADR[14]	ADR[14]	-	-	O	
177	EMI Interface	CPU_ADR[15]	ADR[15]	-	-	O	
178	EMI Interface	CPU_ADR[16]	ADR[16]	-	-	O	
179	EMI Interface	CPU_ADR[17]	ADR[17]	-	-	O	
180	EMI Interface	CPU_ADR[18]	ADR[18]	-	-	O	
181	EMI Interface	CPU_ADR[19]	ADR[19]	-	-	O	
182	EMI Interface	CPU_ADR[20]	ADR[20]	-	-	O	
183	EMI Interface	CPU_ADR[21]	ADR[21]	-	-	O	
184	-	VDD3_3	3.3V POWER SUPPLY	-	-	POWER	
185	-	VSS	GROUND	-	-	POWER	
186	PIOs and communication	PIO0[0]	PIO0[0]	UART0_DATA		I/O	
187	PIOs and communication	PIO0[1]	PIO0[1]	-	ATAPI_RD	I/O	

MICROPROCESSOR TERMINAL DESCRIPTION

IC21: STI5519 MPEG VIDEO DECODER-6

PIN NUMBER	DESCRIPTION	PIN NAME	MAIN FUNCTION	ALTERNATE FUNCTION		TYPE	REMARK
				INPUT	OUTPUT		
188	PIOs and communication	PIO0[2]	PIO0[2]	-	ATAPI_WR	I/O	
189	PIOs and communication	PIO0[3]	PIO0[3]	-	-	I/O	
190	PIOs and communication	PIO0[4]	PIO0[4]	-	-	I/O	
191	PIOs and communication	PIO0[5]	PIO0[5]	-	-	I/O	
192	PIOs and communication	PIO0[6]	PIO0[6]	-	-	I/O	
193	PIOs and communication	PIO0[7]	PIO0[7]	-	-	I/O	
194	PIOs and communication	PIO1[0]	PIO1[0]	SSCO_DATA (MTSR OUT/MRST IN		I/O	
195	PIOs and communication	PIO1[1]	PIO1[1]	SSC0_CLOCK		I/O	
196	PIOs and communication	PIO1[2]	PIO1[2]	PARA_DVALID	-	I/O	
197	PIOs and communication	PIO1[3]	PIO1[3]	-	UART2_TXD	I/O	
198	-	VDD2_5	2.5V POWER SUPPLY	-	-	POWER	
199	-	VSS	GROUND	-	-	POWER	
200	PIOs and communication	PIO1[4]	PIO1[4]	UART2_RXD	-	I/O	
201	PIOs and communication	PIO1[5]	PIO1[5]	PARA_SYNC	UART1_TXD	I/O	
202	PIOs and communication	TRIGGER_IN	TRIGGER_IN FOR DCU	-	-	I/O	
203	PIOs and communication	TRIGGER_OUT	TRIGGER_OUT FOR DCU	-	-	I/O	
204	PIOs and communication	PIO2[0]	PIO2[0]	UART3_DATA		I/O	
205	PIOs and communication	PIO2[1]	PIO2[1]	UART1_RXD	PARA_REQ	I/O	
206	PIOs and communication	PIO2[2]	PIO2[2]	PARA_STR		I/O	
207	PIOs and communication	PIO2[3]	PIO2[3]	-	-	I/O	
208	PIOs and communication	PIO2[4]	PIO2[4]	-	-	I/O	

END

DV-CP500 EXPLODED VIEW PARTS LIST

NO	PARTS No		PARTS NAME
1	55384980	XX	BADGE DVD
2	55184480	XX	DOOR TRAY
3	55221120	XX	WINDOW DISPLAY
4	55186750	XX	BADGE LOGO DV-C503
5	55186710	XX	FACET ST/BY
7	55244650	XX	BUTTON POWER
8	55244620	XX	SHAFT KNOB POWER
9	55184600	XX	MOLD BUTTON
10	55387280	XX	POWER/STANDBY BUTTON PC BOARD INCLUDED DISPLAY PC BOARD
11	55244670	XX	BUTTON CD PLAY
12	55221140	XX	SHIELD COVER SENSOR
13	55164930	XX	FL HOLDER
14	55382400	XX	FRONT PANEL
15	55244660	XX	BUTTON OPEN/CLOSE
16	55244680	XX	BUTTON 9KEY
17	55145270	XX	TACT SWITCH VERTICAL
18	55387280	XX	OPEN/CLOSE SWITCH PCB INCLUDED DISPLAY PC BOARD
19	55387280	XX	DISPLAY PC BOARD
20	55178960	XX	SPRING PLATE
21	55236110	XX	CHASSIS FRONT
22	55201610	XX	RUBBER SPACER 14.5 x 14.5 x 22
23	55174550	XX	SHIELD GASKET 1 12 x 8 x 20
24	55125120	XX	FOOT
25	55141370	XX	FOOT RUBBER
26	5518662A	XX	CABINET CHASSIS MAIN
27	55190770	XX	FELT 38 x 120 x 0.3T
28	55405550	XX	SHIELD COVER
29	55190690	XX	SHIELD COVER DOWN LOAD
30	55388040	XX	OUTPUT TERMINAL PC BOARD ASSY
36	55190780	XX	POWER CORD
37	55125180	XX	AC CORD BUSHING
38	55148840NR		FERRITE MAGNET RING 34 34.5 x 21 x 12 K-150
39	55383040	XX	REAR PANEL
40	55174610	XX	BRACKET MECHANISM RIGHT
41	55371600	XX	ROULETTE MECHA. ASSY CDM5G (TVM503R-1)
42	55186680	XX	BRACKET FRAME MECHA
43	55186600	XX	COVER TOP
44	5518667A	XX	BRACKET FRAME MECHA LIGHT
46	55190680	XX	PLATE
47	55516410	XX	SHIELD PLATE MPEG
48	55514090	XX	SHIELD COVER PROTECT
49	55386700	XX	MAIN CIRCUIT PC BOARD ASSY
50	55190160	XX	BRACKET GROUND
51	55186640	XX	BRACKET MAIN PCB
52	55332110	XX	POWER SUPPLY UNIT
53	55202510	XX	SHIELD COVER FOR POWER PCB
54	SR-5, T2A		SAVE FUSE, 250VCA T 2.0A
S1	838130068	XX	SCREW 3TTB+6B
S2	838130088	XX	SCREW 3TTB+8B
S3	238440088	XX	SCREW 4TTB+8BC(BC)
S4	55127120	XX	SCREW 3MM 8MM WITH WASHER
S5	55127180	XX	SCREW 3MM 8MM
S6	838430108	XX	SCREW 3TTB+8B(BC)

<NOTE>

49	55386700		MAIN CIRCUIT PC BOARD ASSY

30	55388040	OUTPUT TERMINAL PC BOARD ASSY
19	55387280	DISPLAY PC BOARD (INCLUDED OPEN/CLOSE SW PCB+ POWER STANDBY SW PCB+ CONNECTION PCB)

PACKING PARTS LIST

NO.	PARTS No	PARTS NAME
50	55383360	Carton box, DV-CP500
60	55184410	Pad Right, same as DPC503
80	55184420	Pad Left, same as DPC503
90	55176530	Audio connection cable
100	55383390	Instruction manual
110	55511980	Warranty card
120	55231700	Sheet
130	55170650	Poly bag 260MM X 410MM
140	20932750	Poly bag 250MM X 90MM
150	20194780	Cable tie
170	5520874A	Cushion 80.0MM X 35.0MM
180	55445490	POS Label
190	55445520	Remote controller
210	55186190	Coaxial cable
240	29110148	PP Tape
250	3010054	Battery, UM-3

EXPLODED VIEW-2 PARTS LIST OF DVD MECHANISM

DVD MECHANISM

REF NO.	PART NO.	DESCRIPTION
50	5502007A	PLASTIC PLATTER
60	20581820	MOTOR DC ASSY, FF-130SH-14230
70	20584560	MOTOR PULLEY
80	20710160	RUBBER BELT PLATTER
90	20634190	FELT, 30.0MM X 25.0MM 0.8MM
100	20710170	GEAR WORM
110	20710180	GEAR HELICAL
120	20711380	METAL SHAFT
130	20711410	PLASTIC PULLEY
140	20712060	SPRING CLIP
150	20712120	RUBBER ROLLER
160	20712170	PLASTIC ROLLER HUB
170	5502008A	PLASTIC DRAWER
190	55020090	PLASTIC BASE
200	55020110	GEAR MAIN
210	20712230	PLASTIC CAM LIFTER
220	20712240	MOLD GEAR DRIVE
230	20712250	MOLD GEAR PULLEY
240	20692300	SCREW-ST 3MM 10MM
250	55517530	DRAWER MOTOR ASSY, VRF-500TB-14415
260	20712270	RUBBER BELT DRIVE
270	20349530	SCREW 2.6MM 4MM
280	20366370	SCREW-SPEC 3MM 10MM WITH WASHER
290	10739460	DVD MECHANISM UNIT TVM 503R1
300	838130088	SELF TAPPING SCREW 3TTB+8B
310	55190460	SCREW-ST 3MM 18MM
320	55190600	WASHER 3MM 55MM 1MM
420	55190760	WASHER-SPR 7.3MM 14.0MM 0.4MM
430	55232980	BRACKET SUPPORT LEFT
440	55232990	BRACKET SUPPORT RIGHT
450	55463530	BUBBER CUSHION
460	10742170	SCREW SPEC. 2MMX14.7MM

470	55020130	METAL MAGNETIC HOLDER
480	55371790	MOLD BRACKET DVD
490	55371890	PLASTIC CLAMPER DVD
500	55438160	FREXIBLE FLAT CABLE, RIBBON 22
510	55371920	METAL YOKE PUCK
520	55472730	BRACKET BASE PICK-UP
530	55472540	RUBBER SUPPORT 15*30*3
540	55491450	RUBBER 16X8X2T CDM5G --
550	55491580	RUBBER FELT YOKE
560	55178960	SPRING PLATE SPRING
5000	55183130	MECHANISM PC BOARD, DVC503

MECHANISM CONTROL PC BOARD ASSY

REF NO.	PART NO.	DESCRIPTION
C005	20268030	CE 1MI0F +20% 25.0V 85C
D001	20414280	D-ZENER 1N5232B 5.6V
D002	20414280	D-ZENER 1N5232B 5.6V
IC001	20656300 or	IC LB1641 MOTOR CONT or
IC001	55183090 or	IC-MOTOR KA3082 SIP10 or
IC001	20458950	IC-MOTOR BA6209N
IC002	20458950 or	IC BA6209N MOTOR CONT or
IC002	20656300 or	IC LB1641 MOTOR CONT or
IC002	55183090	IC KA3082 MOTOR DRIVER
L001	20265120	LF 39U0H +10% 130MI0 OHM 1.5A
P003	20504010	CONNECTOR 2.0MM JST,B6B-PH-K 0 0
P004	20713210	WIRE 150MM DRAWER MOTOR
P027	20713500	SOCKET ASSY 180MM RIBBON SOFT
P406	55183020NR	SOCKET 70MM PVC DISCRETE 26
P406B	20649240	SOCKET ASSY 60MM
PI001	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI001	20621240	DIODE PHOTO GP1S58V 20MI0A
PI002	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI002	20621240	DIODE PHOTO GP1S58V 20MI0A
PI003	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI003	20621240	DIODE PHOTO GP1S58V 20MI0A
PI004	20556130	DIODE PHOTO GP2S28 20MI0A
R001	50882950	CARBON RESISTOR 100 OHM +5% 1/4W
R002	50882950	CARBON RESISTOR 100 OHM +5% 1/4W
R003	20549430	CARBON RESISTOR 2.2 OHM +5% 1/4W
R004	20549430	CARBON RESISTOR 2.2 OHM +5% 1/4W
C001	80434590	CERAMIC CAPACITOR 22PF +5% -5% 50.0V
C002	20246950	CERAMIC CAPACITOR 0.1uF +10% -10% 25.0V
C003	80434590	CERAMIC CAPACITOR 22PF +5% -5% 50.0V
C004	20246950	CERAMIC CAPACITOR 0.1uF +10% -10% 25.0V

PRINTED CIRCUIT BOARD PARTS LIST

MECHANISM CONTROL PC BOARD

CIRCUIT NO.	PART NO.	DESCRIPTION
	55371600	**MECHANISM CONTROL PC BOARD ASSEMBLY** (Included Roulette motor PCB)
		IC
IC001	20656300 or	LB1641 MOTOR CONT or

IC001	55183090 or	MOTOR KA3082 SIP10 or
IC001	20458950	MOTOR BA6209N
IC002	20458950 or	BA6209N MOTOR CONT or
IC002	20656300 or	LB1641 MOTOR CONT or
IC002	55183090	KA3082 MOTOR DRIVER
		DIODE
D001	20414280	D-ZENER 1N5232B 5.6V
D002	20414280	D-ZENER 1N5232B 5.6V
PI001	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI001	20621240	DIODE PHOTO GP1S58V 20MI0A
PI002	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI002	20621240	DIODE PHOTO GP1S58V 20MI0A
PI003	20586840 or	DIODE PHOTO ITR9606/F2(T) or
PI003	20621240	DIODE PHOTO GP1S58V 20MI0A
PI004	20556130	DIODE PHOTO GP2S28 20MI0A
		CAPACITOR
C005	20268030	CE 1MI0F +20% 25.0V 85C
C001	80434590	CERAMIC CAPACITOR 22PF +5% -5% 50.0V
C002	20246950	CERAMIC CAPACITOR 0.1uF +10% -10% 25.0V
C003	80434590	CERAMIC CAPACITOR 22PF +5% -5% 50.0V
C004	20246950	CERAMIC CAPACITOR 0.1uF +10% -10% 25.0V
		COIL
L001	20265120	LF 39U0H +10% 130MI0 OHM 1.5A
		CONNECTOR
P003	20504010	CONNECTOR 2.0MM JST,B6B-PH-K 0 0
		SOCKET AS
P027	20713500	SOCKET ASSY 180MM RIBBON SOFT
P406B	20649240	SOCKET ASSY 60MM
		SOCKET
P406	55183020	SOCKET 70MM PVC DISCRETE 26
		RESISTOR
R001	50882950	100 OHM +5% 1/4W, Carbon
R002	50882950	100 OHM +5% 1/4W, Carbon
R003	20549430	2.2 OHM +5% 1/4W, Carbon
R004	20549430	2.2 OHM +5% 1/4W, Carbon
		OTHER
P004	20713210	WIRE 150MM DRAWER MOTOR

PRINTED CIRCUIT BOARD PARTS LIST

DISPLAY CIRCUIT PC BOARD

CIRCUIT NO.	PART NO.	DESCRIPTION
	55387280	**DISPLAY CIRCUIT PC BOARD ASSEMBLY** (Inclided Open/Close SW PCB,Standby LED PCB and Connection PCB)
		CAPACITOR
C901	20342060	47U0F +20% 16.0V 85C, Elect.
C903	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
C904	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
C905	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
C906	20252050	100U0F +20% 6.3V 85C, Elect.
C907	20268620	470U0F +20% 6.3V 85C, Elect.
C908	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
C909	20268840	1U0F +20% 50.0V 85C, Elect.
C911	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
C917	20288040	100N0F +80% -20% 16.0V Y5V, Ceramic Chip
		CONNECTOR ASS'Y
CN91	55255440	5P 380MM UL2791 SHIELD 28

CN92	55182990	5P 220MM UL1007 PVC DISCRETE 26
CN93	55199600	2P 40MM UL1007 RIBBON 26
CN96	55199610	4P 70MM UL1007 RIBBON 26
		PLUG WAFER
CN94	55123320	2.0MM 5 MA ST NAT LW2002P05
CN95	55123320	2.0MM 5 MA ST NAT LW2002P05
CP93	55090070	2.0MM 2 MA ST NAT LW2002P0200T
CP96	55123310	2.0MM 4 MA ST NAT LW2002P04
		DIODE
D904	70436540	1N4148 100.0V 150E-3A
D905	55125510	RED 3.0 DIFU 5.6CD, LED
D906	55177870	RB501V-40 40.0V 100MI0A, Schottkey
D917	20496510	1SS355 35.0V 225MI0A
		FINGER
FING	55178960	SPRING PLATE GND C5212 0.2T
		FL TUBE
FL91	55390980	DISPLAY HNV-12SM24
		IC
IC91	55443360	IC-MICRO CONTROL CXP82532-310Q
IC92	55191090	KIA7045P LOW VOLTAGE DROP
		COIL
L901	14039360	LF-SMD 22U0H +10%,Chip
L909	55126670	1000OHM FCM2012H-102T04
L912	55126670	1000OHM FCM2012H-102T04
L913	55126670	1000OHM FCM2012H-102T04
L914	55126670	1000OHM FCM2012H-102T04
		TRANSISTOR
Q901	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
		RESISTOR
L902	10328750	0 OHM +0% 62MI5W,Chip
L903	20538660	4R7 OHM +5% 62MI5W,Chip
L904	20538660	4R7 OHM +5% 62MI5W,Chip
L905	10328750	0 OHM +0% 62MI5W,Chip
R901	10134740	100R0 OHM +5% 62MI5W,Chip
R902	10135010	10K0 OHM +5% 62MI5W,Chip
R909	10134980	820R0 OHM +5% 62MI5W,Chip
R911	10135840	1K8 OHM +5% 62MI5W,Chip
R912	10135920	3K9 OHM +5% 62MI5W,Chip
R913	10135990	7K5 OHM +5% 62MI5W,Chip
R914	10135120	22K0 OHM +5% 62MI5W,Chip
R917	10135010	10K0 OHM +5% 62MI5W,Chip
R921	10135840	1K8 OHM +5% 62MI5W,Chip
R922	10135920	3K9 OHM +5% 62MI5W,Chip
R923	10135990	7K5 OHM +5% 62MI5W,Chip
R931	10135840	1K8 OHM +5% 62MI5W,Chip
R932	10135920	3K9 OHM +5% 62MI5W,Chip
R933	10135990	7K5 OHM +5% 62MI5W,Chip
R938	10135010	10K0 OHM +5% 62MI5W,Chip
R939	10135010	10K0 OHM +5% 62MI5W,Chip
R940	10135010	10K0 OHM +5% 62MI5W,Chip
R943	10135220	47K0 OHM +5% 62MI5W,Chip
R945	10328750	0 OHM +0% 62MI5W,Chip
R946	10135010	10K0 OHM +5% 62MI5W,Chip
R950	10134410	10R0 OHM +5% 62MI5W,Chip
W001	10328750	0 OHM +0% 62MI5W,Chip
W002	10328750	0 OHM +0% 62MI5W,Chip
		REMOTE SENSOR
RM91	55156010	NJL63H380A RECEIVER 38KHZ
		TACT SWITCH

S901	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S903	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S905	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S907	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S911	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S913	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S915	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S917	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S921	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S924	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S927	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S930	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
S931	55145270	50MI0A 12.0V 500MI0OHM 1T 1P
		RESONATOR
X901	55126140	10M0 HZ 25.0 OHM 0F

MAIN CIRCUIT PC BOARD

CIRCUIT NO.	PART NO.	DESCRIPTION
	55386700	**MAIN CIRCUIT PC BOARD ASSEMBLY**
		CAPACITOR
C101	20268940	100U0F +20% 10.0V 85C, Elect
C102	10138960	10N0F +10% -10% 50.0V X7R, Chip
C103	20268940	100U0F +20% 10.0V 85C, Elect
C104	10138960	10N0F +10% -10% 50.0V X7R, Chip
C105	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C106	20251930	22U0F +20% 16.0V 85C, Elect
C107	10138550	1N0F +10% -10% 50.0V X7R, Chip
C108	10138550	1N0F +10% -10% 50.0V X7R, Chip
C109	10138550	1N0F +10% -10% 50.0V X7R, Chip
C10B	15002130	10U0F +20% 16.0V 85C, Elect
C10G	15002130	10U0F +20% 16.0V 85C, Elect
C10R	15002130	10U0F +20% 16.0V 85C, Elect
C110	10138550	1N0F +10% -10% 50.0V X7R, Chip
C111	10138550	1N0F +10% -10% 50.0V X7R, Chip
C112	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C113	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C114	10138550	1N0F +10% -10% 50.0V X7R, Chip
C115	20269020	100U0F +20% 16.0V 85C, Elect
C116	10138550	1N0F +10% -10% 50.0V X7R, Chip
C117	20269020	100U0F +20% 16.0V 85C, Elect
C118	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C119	10138550	1N0F +10% -10% 50.0V X7R, Chip
C11B	15002130	10U0F +20% 16.0V 85C, Elect
C11G	15002130	10U0F +20% 16.0V 85C, Elect
C11R	15002130	10U0F +20% 16.0V 85C, Elect
C120	10138550	1N0F +10% -10% 50.0V X7R, Chip
C121	10138550	1N0F +10% -10% 50.0V X7R, Chip
C122	20269020	100U0F +20% 16.0V 85C, Elect
C123	10138550	1N0F +10% -10% 50.0V X7R, Chip
C124	20269020	100U0F +20% 16.0V 85C, Elect
C125	10138550	1N0F +10% -10% 50.0V X7R, Chip
C126	20506570	47P0F +5% -5% 50.0V NP0, Chip
C127	20506570	47P0F +5% -5% 50.0V NP0, Chip
C128	20506570	47P0F +5% -5% 50.0V NP0, Chip
C129	10138550	1N0F +10% -10% 50.0V X7R, Chip
C12B	20268840	1U0F +20% 50.0V 85C, Elect
C12C	10138960	10N0F +10% -10% 50.0V X7R, Chip
C12G	20288040	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C12R	20268840	1U0F +20% 50.0V 85C, Elect

C12S	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C12Y	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C130	20269020	100U0F +20% 16.0V 85C, Elect
C131	10138960	10N0F +10% -10% 50.0V X7R, Chip
C132	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C133	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C134	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C13B	20269020	100U0F +20% 16.0V 85C, Elect
C13C	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C13G	20269020	100U0F +20% 16.0V 85C, Elect
C13R	20269020	100U0F +20% 16.0V 85C, Elect
C13S	20269020	100U0F +20% 16.0V 85C, Elect
C13Y	20269020	100U0F +20% 16.0V 85C, Elect
C14B	20251930	22U0F +20% 16.0V 85C, Elect
C14G	20251930	22U0F +20% 16.0V 85C, Elect
C14R	20251930	22U0F +20% 16.0V 85C, Elect
C14S	20251930	22U0F +20% 16.0V 85C, Elect
C14Y	20251930	22U0F +20% 16.0V 85C, Elect
C201	20268940	100U0F +20% 10.0V 85C, Elect
C202	20288040	100N0F +80% -20% 16.0V Y5V
C203	20268620	470U0F +20% 6.3V 85C, Elect
C204	20288040	100N0F +80% -20% 16.0V Y5V
C205	20506680	470P0F +5% -5% 50.0V NP0
C206	20288040	100N0F +80% -20% 16.0V Y5V
C207	20288040	100N0F +80% -20% 16.0V Y5V
C208	20288040	100N0F +80% -20% 16.0V Y5V
C209	20288040	100N0F +80% -20% 16.0V Y5V
C210	20268940	100U0F +20% 10.0V 85C, Elect
C211	10138960	10N0F +10% -10% 50.0V X7R
C212	20288040	100N0F +80% -20% 16.0V Y5V
C213	20288040	100N0F +80% -20% 16.0V Y5V
C214	20288040	100N0F +80% -20% 16.0V Y5V
C215	20288040	100N0F +80% -20% 16.0V Y5V
C216	20288040	100N0F +80% -20% 16.0V Y5V
C217	20288040	100N0F +80% -20% 16.0V Y5V
C21P	20268940	100U0F +20% 10.0V 85C, Elect
C222	20267830	47U0F +20% 16.0V 85C, Elect
C223	20267830	47U0F +20% 16.0V 85C, Elect
C224	20267830	47U0F +20% 16.0V 85C, Elect
C225	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C226	10137340	68P0F +10% -10% 50.0V NP0, Chip
C227	10137340	68P0F +10% -10% 50.0V NP0, Chip
C228	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C229	10138960	10N0F +10% -10% 50.0V X7R, Chip
C233	20506590	100P0F +5% -5% 50.0V NP0, Chip
C311	20268940	100U0F +20% 10.0V 85C, Elect
C312	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C404	10138550	1N0F +10% -10% 50.0V X7R, Chip
C405	10138550	1N0F +10% -10% 50.0V X7R, Chip
C406	20268940	100U0F +20% 10.0V 85C, Elect
C501	10375090	20P0F +5% -5% 50.0V NP0, Chip
C502	20506520	22P0F +5% -5% 50.0V NP0, Chip
C503	20506520	22P0F +5% -5% 50.0V NP0, Chip
C504	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C505	20268620	470U0F +20% 6.3V 85C, Elect
C506	10375090	20P0F +5% -5% 50.0V NP0, Chip
C601	20267830	47U0F +20% 16.0V 85C, Elect
C602	10138390	560P0F +10% -10% 50.0V X7R, Chip
C603	20268880	10U0F +20% 50.0V 85C, Elect

C604	10138390	560P0F +10% -10% 50.0V X7R, Chip
C605	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C606	15002130	10U0F +20% 16.0V 85C, Elect
C607	10138390	560P0F +10% -10% 50.0V X7R, Chip
C608	20268940	100U0F +20% 10.0V 85C, Elect
C609	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C610	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C611	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C612	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C613	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C614	20269110	330U0F +20% 6.3V 85C, Elect
C615	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C616	10138960	10N0F +10% -10% 50.0V X7R, Chip
C617	20268940	100U0F +20% 10.0V 85C, Elect
C618	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C619	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C61L	20267830	47U0F +20% 16.0V 85C, Elect
C61R	20267830	47U0F +20% 16.0V 85C, Elect
C620	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C621	20506540	10P0F +0P5F -0P5F 50.0V NP0, Chip
C62L	10138620	2N7F +10% -10% 50.0V X7R, Chip
C62R	10138620	2N7F +10% -10% 50.0V X7R, Chip
C63L	20468970	CCCFMIN 330P0F +5% -5% 50.0V NP0, Chip
C63R	20468970	CCCFMIN 330P0F +5% -5% 50.0V NP0, Chip
C65L	20267830	47U0F +20% 16.0V 85C, Elect
C65R	20267830	47U0F +20% 16.0V 85C, Elect
C66L	20267830	47U0F +20% 16.0V 85C, Elect
C66R	20267830	47U0F +20% 16.0V 85C, Elect
C67L	20506590	100P0F +5% -5% 50.0V NP0, Chip
C67R	20506590	100P0F +5% -5% 50.0V NP0, Chip
		FLEXIBLE FLAT CABLE
CC21	55478040	19X 1.25MM 220MM
CC25	55238420	23X 1.25MM 100MM
		CONNECTOR ASS'Y
CN21	55182960	5P 130MM UL1007 PVC DISCRETE 26
CN25	55182970	12P 150MM UL1007 PVC DISCRETE 26
CN26	55123450	2.0MM 12 MA R NAT LW2003P12
CN27	55420050	2P 250MM UL1533 SHIELD 26
		PLUG WAFER
CP21	55124680	1.25MM 19 FE R WH GF120-19S-LS 2794 A6
CP22	55125910	1.0MM 15 FE ST BK 00-6232-015-006-800 0 0
CP23	55125910	1.0MM 15 FE ST BK 00-6232-015-006-800 0 0
CP25	55124620	1.25MM 23 FE ST WH GF120-23S-TS 2794 A6
		DIODE
D101	20496510	1SS355 35.0V 225MI0A, Chip
D601	20496510	1SS355 35.0V 225MI0A, Chip
D602	70436540	1N4148 100.0V 150E-3A, Chip
		FINGER
FING	55178960	SPRING PLATE GND C5212 0.2T AVR520
		IC
IC11	55388940	VIDEO PROCESSOR PM0026A
IC12	55389040	MM1568AJBE SSOP34A AMPLIFIER&DRIVER
IC13	15069010	REGSPECKT TL431
IC14	15180010	74HC74 FLIP/FLOP CMOS
IC14	20997870	MC74HC74AD DUAL-D FLIP FLOP
IC15	15178670	74HC86 GATE HCMOS
IC1P	55491690	KIA7805AP NORMAL
IC1P	55505580	KA7805 TO-220 NORMAL
IC21	55130350	STI5519 MPEG VIDEO DECODER

IC21	55403940	STI5518MVB MPEG VIDEO DECODER
IC22	20940740	EEPROM M24C02WMN6
IC31	55156290	DRAM 64M(1M*16*4) HY57V651620BTC-8
IC31	55156420	DRAM 100M0 HZ 8N0 64M(1M*16*4) K4S641632D
IC31	55236130	DRAM 100M0 HZ 6N0 64M(1M*16*4) HY57V641620HGT-H
IC41	55136720	IC-MEMORY FLASH M29W800AT90N1
IC41	55177660	MEMORY FLASH SST39VF800A-90-4C-EK
IC41	55177670	MEMORY FLASH TMS29LF80
IC51	55133310	LOGIC M74HCU04M1R INVERTER HCT
IC61	55291470	CONVERTER WM8728 D/A
IC62	55128990	OPERAMP BA4560F DUAL OP
		COIL
L101	55188040	2U2H +10%, Chip
L102	55188040	2U2H +10%, Chip
L202	55188040	2U2H +10%, Chip
L203	55126670	1000OHM FCM2012H-102T04, Chip
L204	55126670	1000OHM FCM2012H-102T04, Chip
L205	55126670	1000OHM FCM2012H-102T04, Chip
L210	55126670	1000OHM FCM2012H-102T04, Chip
L501	55126670	1000OHM FCM2012H-102T04, Chip
L601	55126670	1000OHM FCM2012H-102T04, Chip
L602	55126670	1000OHM FCM2012H-102T04, Chip
L603	55188040	2U2H +10%, Chip
L604	55126710	120OHM FCM2012C-121T06, Chip
R415	55126670	1000OHM FCM2012H-102T04, Chip
		TRANSISTOR
Q101	55133190	DTA114YKA P 10K0 OHM 47K0 OHM
Q102	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q103	20970460	KTC3875Y N 50V 150MI0A
Q10B	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q10G	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q10R	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q11B	55388740	KTN2222AS P 40V -600MI0A
Q11G	55388740	KTN2222AS P 40V -600MI0A
Q11R	55388740	KTN2222AS P 40V -600MI0A
Q12B	55388740	KTN2222AS P 40V -600MI0A
Q12G	55388740	KTN2222AS P 40V -600MI0A
Q12R	55388740	KTN2222AS P 40V -600MI0A
Q13B	55137830	KTN2907AS N 50V -600MI0A
Q13G	55137830	KTN2907AS N 50V -600MI0A
Q13R	55137830	KTN2907AS N 50V -600MI0A
Q14B	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q14G	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q14R	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q15B	55137830	KTN2907AS N 50V -600MI0A
Q15G	55137830	KTN2907AS N 50V -600MI0A
Q15R	55137830	KTN2907AS N 50V -600MI0A
Q201	20970460	KTC3875Y N 50V 150MI0A
Q202	20970460	KTC3875Y N 50V 150MI0A
Q601	55133190	DTA114YKA P 10K0 OHM 47K0 OHM
Q602	55133180	DTC114YKA N 10K0 OHM 47K0 OHM
Q61L	55039430	DTC323TK N 2K2 OHM
Q61R	55039430	DTC323TK N 2K2 OHM
		RESISTOR
J301	10328750	0 OHM +0% 62MI5W, Chip
L201	10328750	0 OHM +0% 62MI5W, Chip
L301	10328750	0 OHM +0% 62MI5W, Chip
R101	10135080	18K0 OHM +5% 62MI5W, Chip
R102	10135080	18K0 OHM +5% 62MI5W, Chip

R103	10134650	47R0 OHM +5% 62MI5W, Chip
R104	10134650	47R0 OHM +5% 62MI5W, Chip
R105	10134650	47R0 OHM +5% 62MI5W, Chip
R106	10134650	47R0 OHM +5% 62MI5W, Chip
R107	10134650	47R0 OHM +5% 62MI5W, Chip
R108	10134650	47R0 OHM +5% 62MI5W, Chip
R109	10134650	47R0 OHM +5% 62MI5W, Chip
R10B	10134860	300R0 OHM +5% 62MI5W, Chip
R10C	10134860	300R0 OHM +5% 62MI5W, Chip
R10G	10134860	300R0 OHM +5% 62MI5W, Chip
R10R	10134860	300R0 OHM +5% 62MI5W, Chip
R10S	10134860	300R0 OHM +5% 62MI5W, Chip
R10Y	10134860	300R0 OHM +5% 62MI5W, Chip
R110	10134650	47R0 OHM +5% 62MI5W, Chip
R111	10135900	3K3 OHM +5% 62MI5W, Chip
R112	30947610	1K4 OHM +1% 100MI0W
R113	10135910	3K6 OHM +5% 62MI5W, Chip
R114	10134720	82R0 OHM +5% 62MI5W, Chip
R115	10134870	330R0 OHM +5% 62MI5W, Chip
R116	20538670	2R2 OHM +5% 62MI5W, Chip
R117	10134410	10R0 OHM +5% 62MI5W, Chip
R118	20538670	2R2 OHM +5% 62MI5W, Chip
R119	10135220	47K0 OHM +5% 62MI5W, Chip
R11B	10134410	10R0 OHM +5% 62MI5W, Chip
R11C	10134410	10R0 OHM +5% 62MI5W, Chip
R11G	10134410	10R0 OHM +5% 62MI5W, Chip
R11R	10134410	10R0 OHM +5% 62MI5W, Chip
R11S	10134410	10R0 OHM +5% 62MI5W, Chip
R11Y	10134410	10R0 OHM +5% 62MI5W, Chip
R120	10135220	47K0 OHM +5% 62MI5W, Chip
R121	10135220	47K0 OHM +5% 62MI5W, Chip
R122	10135220	47K0 OHM +5% 62MI5W, Chip
R123	20538670	2R2 OHM +5% 62MI5W, Chip
R124	20538670	2R2 OHM +5% 62MI5W, Chip
R125	10134410	10R0 OHM +5% 62MI5W, Chip
R126	10134410	10R0 OHM +5% 62MI5W, Chip
R127	10134740	100R0 OHM +5% 62MI5W, Chip
R128	10134740	100R0 OHM +5% 62MI5W, Chip
R129	10134740	100R0 OHM +5% 62MI5W, Chip
R12B	10135960	5K6 OHM +5% 62MI5W, Chip
R12G	10135960	5K6 OHM +5% 62MI5W, Chip
R12R	10135960	5K6 OHM +5% 62MI5W, Chip
R130	10135220	47K0 OHM +5% 62MI5W, Chip
R131	10135220	47K0 OHM +5% 62MI5W, Chip
R132	10134740	100R0 OHM +5% 62MI5W, Chip
R134	10134740	100R0 OHM +5% 62MI5W, Chip
R135	10134740	100R0 OHM +5% 62MI5W, Chip
R136	10135940	4K7 OHM +5% 62MI5W, Chip
R137	10135770	1K0 OHM +5% 62MI5W, Chip
R138	10134740	100R0 OHM +5% 62MI5W, Chip
R13B	10135180	36K0 OHM +5% 62MI5W, Chip
R13G	10135180	36K0 OHM +5% 62MI5W, Chip
R13R	10135180	36K0 OHM +5% 62MI5W, Chip
R147	10134410	10R0 OHM +5% 62MI5W, Chip
R14B	10135860	2K2 OHM +5% 62MI5W, Chip
R14G	10135860	2K2 OHM +5% 62MI5W, Chip
R14R	10135860	2K2 OHM +5% 62MI5W, Chip
R15B	10134950	680R0 OHM +5% 62MI5W, Chip
R15G	10134950	680R0 OHM +5% 62MI5W, Chip

R15R	10134950	680R0 OHM +5% 62MI5W, Chip
R16B	10135180	36K0 OHM +5% 62MI5W, Chip
R16G	10135180	36K0 OHM +5% 62MI5W, Chip
R16R	10135180	36K0 OHM +5% 62MI5W, Chip
R17B	10135960	5K6 OHM +5% 62MI5W, Chip
R17G	10135960	5K6 OHM +5% 62MI5W, Chip
R17R	10135960	5K6 OHM +5% 62MI5W, Chip
R18B	10135770	1K0 OHM +5% 62MI5W, Chip
R18G	10135770	1K0 OHM +5% 62MI5W, Chip
R18R	10135770	1K0 OHM +5% 62MI5W, Chip
R19B	10134740	100R0 OHM +5% 62MI5W, Chip
R19G	10134740	100R0 OHM +5% 62MI5W, Chip
R19R	10134740	100R0 OHM +5% 62MI5W, Chip
R201	10134740	100R0 OHM +5% 62MI5W, Chip
R202	10134740	100R0 OHM +5% 62MI5W, Chip
R203	10134740	100R0 OHM +5% 62MI5W, Chip
R204	10134740	100R0 OHM +5% 62MI5W, Chip
R205	10134650	47R0 OHM +5% 62MI5W, Chip
R206	10135010	10K0 OHM +5% 62MI5W, Chip
R20B	10134710	75R0 OHM +5% 62MI5W, Chip
R20G	10134760	120R0 OHM +5% 62MI5W, Chip
R20R	10134710	75R0 OHM +5% 62MI5W, Chip
R214	10135770	1K0 OHM +5% 62MI5W, Chip
R215	10135940	4K7 OHM +5% 62MI5W, Chip
R216	10135940	4K7 OHM +5% 62MI5W, Chip
R217	10135010	10K0 OHM +5% 62MI5W, Chip
R218	10135770	1K0 OHM +5% 62MI5W, Chip
R219	10328750	0 OHM +0% 62MI5W, Chip
R21P	10328750	0 OHM +0% 62MI5W, Chip
R220	10328750	0 OHM +0% 62MI5W, Chip
R221	10135220	47K0 OHM +5% 62MI5W, Chip
R222	10135010	10K0 OHM +5% 62MI5W, Chip
R223	10135010	10K0 OHM +5% 62MI5W, Chip
R224	10135010	10K0 OHM +5% 62MI5W, Chip
R225	10134650	47R0 OHM +5% 62MI5W, Chip
R226	10134650	47R0 OHM +5% 62MI5W, Chip
R227	10134650	47R0 OHM +5% 62MI5W, Chip
R228	10134650	47R0 OHM +5% 62MI5W, Chip
R229	10134650	47R0 OHM +5% 62MI5W, Chip
R230	10135010	10K0 OHM +5% 62MI5W, Chip
R231	10328750	0 OHM +0% 62MI5W, Chip
R232	10135010	10K0 OHM +5% 62MI5W, Chip
R233	10135010	10K0 OHM +5% 62MI5W, Chip
R234	10135010	10K0 OHM +5% 62MI5W, Chip
R235	10134650	47R0 OHM +5% 62MI5W, Chip
R236	10134410	10R0 OHM +5% 62MI5W, Chip
R237	10135010	10K0 OHM +5% 62MI5W, Chip
R238	10134650	47R0 OHM +5% 62MI5W, Chip
R239	10134650	47R0 OHM +5% 62MI5W, Chip
R23B	21073400	13K7 OHM +1% 62MI5W, Chip
R23G	21073400	13K7 OHM +1% 62MI5W, Chip
R23R	21073400	13K7 OHM +1% 62MI5W, Chip
R240	10134650	47R0 OHM +5% 62MI5W, Chip
R241	10134650	47R0 OHM +5% 62MI5W, Chip
R242	10134650	47R0 OHM +5% 62MI5W, Chip
R243	10134710	75R0 OHM +5% 62MI5W, Chip
R244	10134710	75R0 OHM +5% 62MI5W, Chip
R245	10134410	10R0 OHM +5% 62MI5W, Chip
R246	10135840	1K8 OHM +5% 62MI5W, Chip

R247	10135840	1K8 OHM +5% 62MI5W, Chip
R248	10134650	47R0 OHM +5% 62MI5W, Chip
R249	10134650	47R0 OHM +5% 62MI5W, Chip
R24B	21073400	13K7 OHM +1% 62MI5W, Chip
R24G	21073400	13K7 OHM +1% 62MI5W, Chip
R24R	21073400	13K7 OHM +1% 62MI5W, Chip
R250	10328750	0 OHM +0% 62MI5W, Chip
R251	10135010	10K0 OHM +5% 62MI5W, Chip
R252	10134740	100R0 OHM +5% 62MI5W, Chip
R253	10134740	100R0 OHM +5% 62MI5W, Chip
R254	10328750	0 OHM +0% 62MI5W, Chip
R256	10134650	47R0 OHM +5% 62MI5W, Chip
R257	10134650	47R0 OHM +5% 62MI5W, Chip
R258	10135010	10K0 OHM +5% 62MI5W, Chip
R259	10135010	10K0 OHM +5% 62MI5W, Chip
R25B	10134710	75R0 OHM +5% 62MI5W, Chip
R25C	10134710	75R0 OHM +5% 62MI5W, Chip
R25G	10134710	75R0 OHM +5% 62MI5W, Chip
R25R	10134710	75R0 OHM +5% 62MI5W, Chip
R25S	10134710	75R0 OHM +5% 62MI5W, Chip
R25Y	10134710	75R0 OHM +5% 62MI5W, Chip
R260	10328750	0 OHM +0% 62MI5W, Chip
R261	10135220	47K0 OHM +5% 62MI5W, Chip
R262	10135220	47K0 OHM +5% 62MI5W, Chip
R263	10135220	47K0 OHM +5% 62MI5W, Chip
R264	10135220	47K0 OHM +5% 62MI5W, Chip
R265	10135220	47K0 OHM +5% 62MI5W, Chip
R266	10135220	47K0 OHM +5% 62MI5W, Chip
R267	10135220	47K0 OHM +5% 62MI5W, Chip
R268	10135220	47K0 OHM +5% 62MI5W, Chip
R269	10134650	47R0 OHM +5% 62MI5W, Chip
R270	10134650	47R0 OHM +5% 62MI5W, Chip
R271	10134650	47R0 OHM +5% 62MI5W, Chip
R272	10134650	47R0 OHM +5% 62MI5W, Chip
R273	10134650	47R0 OHM +5% 62MI5W, Chip
R274	10134650	47R0 OHM +5% 62MI5W, Chip
R275	10134650	47R0 OHM +5% 62MI5W, Chip
R276	10134650	47R0 OHM +5% 62MI5W, Chip
R277	55232770	RMF 2R2 OHM +5% 500MI0W
R29B	10135010	10K0 OHM +5% 62MI5W, Chip
R29C	10135010	10K0 OHM +5% 62MI5W, Chip
R29G	10135010	10K0 OHM +5% 62MI5W, Chip
R29R	10135010	10K0 OHM +5% 62MI5W, Chip
R29S	10135010	10K0 OHM +5% 62MI5W, Chip
R29Y	10135010	10K0 OHM +5% 62MI5W, Chip
R301	10134740	100R0 OHM +5% 62MI5W, Chip
R302	10134740	100R0 OHM +5% 62MI5W, Chip
R303	10134740	100R0 OHM +5% 62MI5W, Chip
R304	10134740	100R0 OHM +5% 62MI5W, Chip
R305	10134740	100R0 OHM +5% 62MI5W, Chip
R306	10134740	100R0 OHM +5% 62MI5W, Chip
R307	10134740	100R0 OHM +5% 62MI5W, Chip
R308	10134740	100R0 OHM +5% 62MI5W, Chip
R309	10134740	100R0 OHM +5% 62MI5W, Chip
R310	10135940	4K7 OHM +5% 62MI5W, Chip
R311	10135940	4K7 OHM +5% 62MI5W, Chip
R312	10135940	4K7 OHM +5% 62MI5W, Chip
R313	10135940	4K7 OHM +5% 62MI5W, Chip
R314	10328750	0 OHM +0% 62MI5W, Chip

R315	10135220	47K0 OHM +5% 62MI5W, Chip
R401	10134650	47R0 OHM +5% 62MI5W, Chip
R402	10134650	47R0 OHM +5% 62MI5W, Chip
R403	10134650	47R0 OHM +5% 62MI5W, Chip
R404	10134650	47R0 OHM +5% 62MI5W, Chip
R405	10135010	10K0 OHM +5% 62MI5W, Chip
R406	10135010	10K0 OHM +5% 62MI5W, Chip
R407	10134650	47R0 OHM +5% 62MI5W, Chip
R408	10134650	47R0 OHM +5% 62MI5W, Chip
R409	10134650	47R0 OHM +5% 62MI5W, Chip
R410	10134650	47R0 OHM +5% 62MI5W, Chip
R413	10135220	47K0 OHM +5% 62MI5W, Chip
R414	10134410	10R0 OHM +5% 62MI5W, Chip
R501	10134740	100R0 OHM +5% 62MI5W, Chip
R502	10134680	56R0 OHM +5% 62MI5W, Chip
R503	10135620	1M0 OHM +5% 62MI5W, Chip
R504	10134740	100R0 OHM +5% 62MI5W, Chip
R601	10134590	33R0 OHM +5% 62MI5W, Chip
R602	10134590	33R0 OHM +5% 62MI5W, Chip
R603	10135220	47K0 OHM +5% 62MI5W, Chip
R604	10328750	0 OHM +0% 62MI5W, Chip
R605	10134910	470R0 OHM +5% 62MI5W, Chip
R606	10135590	820K0 OHM +5% 62MI5W, Chip
R607	10134650	47R0 OHM +5% 62MI5W, Chip
R608	10134650	47R0 OHM +5% 62MI5W, Chip
R609	10135940	4K7 OHM +5% 62MI5W, Chip
R610	10134650	47R0 OHM +5% 62MI5W, Chip
R611	10134650	47R0 OHM +5% 62MI5W, Chip
R612	10135940	4K7 OHM +5% 62MI5W, Chip
R613	10134650	47R0 OHM +5% 62MI5W, Chip
R614	10134650	47R0 OHM +5% 62MI5W, Chip
R615	10135940	4K7 OHM +5% 62MI5W, Chip
R616	10134650	47R0 OHM +5% 62MI5W, Chip
R617	10134650	47R0 OHM +5% 62MI5W, Chip
R618	10134740	100R0 OHM +5% 62MI5W, Chip
R619	10134650	47R0 OHM +5% 62MI5W, Chip
R61L	10135220	47K0 OHM +5% 62MI5W, Chip
R61R	10135220	47K0 OHM +5% 62MI5W, Chip
R62L	10135960	4K7 OHM +5% 62MI5W, Chip
R62R	10135960	4K7 OHM +5% 62MI5W, Chip
R63L	10135920	3K9 OHM +5% 62MI5W, Chip
R63R	10135920	3K9 OHM +5% 62MI5W, Chip
R64L	10136010	9K1 OHM +5% 62MI5W, Chip
R64R	10136010	9K1 OHM +5% 62MI5W, Chip
R65L	10134740	100R0 OHM +5% 62MI5W, Chip
R65R	10134740	100R0 OHM +5% 62MI5W, Chip
R66L	10135340	100K0 OHM +5% 62MI5W, Chip
R66R	10135340	100K0 OHM +5% 62MI5W, Chip
R67L	10134870	330R0 OHM +5% 62MI5W, Chip
R67R	10134870	330R0 OHM +5% 62MI5W, Chip
RA31	55129820	47R0 OHM +5% 62MI5W 4
RA32	55129820	47R0 OHM +5% 62MI5W 4
RA33	55129820	47R0 OHM +5% 62MI5W 4
RA34	55129820	47R0 OHM +5% 62MI5W 4
RA35	55129820	47R0 OHM +5% 62MI5W 4
RA36	55129820	47R0 OHM +5% 62MI5W 4
RA37	55129820	47R0 OHM +5% 62MI5W 4
RA41	55129820	47R0 OHM +5% 62MI5W 4
RA42	55129820	47R0 OHM +5% 62MI5W 4

RA43	55129820	47R0 OHM +5% 62MI5W 4
RA44	55129820	47R0 OHM +5% 62MI5W 4
RA45	55129820	47R0 OHM +5% 62MI5W 4
RA46	55129820	47R0 OHM +5% 62MI5W 4
RA47	55129820	47R0 OHM +5% 62MI5W 4
RA48	55129820	47R0 OHM +5% 62MI5W 4
VR11	55307870	PR 200R0 OHM +30% 100MI0W
		CRYSTAL
X501	55128980	FILQZ 27M0 HZ +15 PPM 50.0 OHM

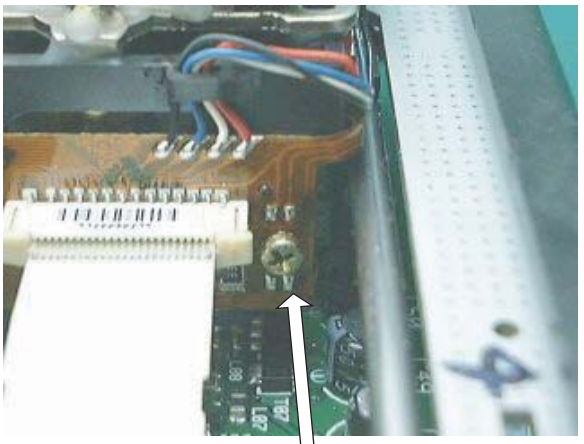
OUTPUT CIRCUIT PC BOARD

CIRCUIT NO.	PART NO.	DESCRIPTION
	55388040	**OUTPUT TERMINAL PC BOARD ASSEMBLY**
		CAPACITOR
C801	20288040	100N0F +80% -20% 16.0V Y5V, Chip
C802	20267830	47U0F +20% 16.0V 85C, Elect
C803	21022740	470N0F +80% -20% 10.0V Y5V, Chip
C804	20506590	100P0F +5% -5% 50.0V NP0, Chip
		PLUG WAFER
CN01	55124620	1.25MM 23 FE ST WH GF120-23S-TS 2794 A6
CP01	55090070	2.0MM 2 MA ST NAT LW2002P0200T 0 0
		DIODE
D711	70436540	1N4148 100.0V 150E-3A, Chip
		IC
IC85	55164740	GP1F32T, Optical out
		JACK
JK81	55164750	PHONO SCKT W/GN 1 PINS
JK82	55175260	PHONO SCKT RCA 2P W/GND CAP JE020059PN
JK83	55191220	DIN SCKT MIX SOCKET RCA & S-VIDEO
JK84	55149420	PHONO SCKT RCA-314P RBG
		COIL
L801	55126710	120OHM FCM2012C-121T06, Chip
L802	55126710	120OHM FCM2012C-121T06, Chip
L803	55126710	120OHM FCM2012C-121T06, Chip
		TRANSISTOR
Q801	20970460	KTC3875Y N 50V 150MI0A
Q802	20970480	KTA1504Y P -50V -150MI0A
		RESISTOR
J893	10328750	0 OHM +0% 62MI5W, Chip
J894	10328750	0 OHM +0% 62MI5W, Chip
J895	10328750	0 OHM +0% 62MI5W, Chip
R801	10134740	100R0 OHM +5% 62MI5W, Chip
R802	10328750	0 OHM +0% 62MI5W, Chip
R803	10135940	4K7 OHM +5% 62MI5W, Chip
R804	10134410	10R0 OHM +5% 62MI5W, Chip
R805	10134810	180R0 OHM +5% 62MI5W, Chip
R806	10134740	100R0 OHM +5% 62MI5W, Chip
R807	10328750	0 OHM +0% 62MI5W, Chip
R808	10328750	0 OHM +0% 62MI5W, Chip
R815	10328750	0 OHM +0% 62MI5W, Chip
R820	10328750	0 OHM +0% 62MI5W, Chip
R874	10328750	0 OHM +0% 62MI5W, Chip
R876	10328750	0 OHM +0% 62MI5W, Chip
R877	10328750	0 OHM +0% 62MI5W, Chip
R87L	10328750	0 OHM +0% 62MI5W, Chip
R87R	10328750	0 OHM +0% 62MI5W, Chip
W003	10328750	0 OHM +0% 62MI5W, Chip

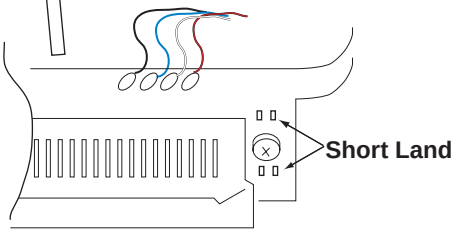
DISASSEMBLY PROCEDURE

Replacement of DVD mechanism

The laser diode in the optical pickup block so sensitive to static electricity, surge current and etc..
That the components are liable to be broken down or its reliability remarkable deteriorated.
During repair, carefully take the following precautions.
Do not touch the optical pickup object lens with the hands.

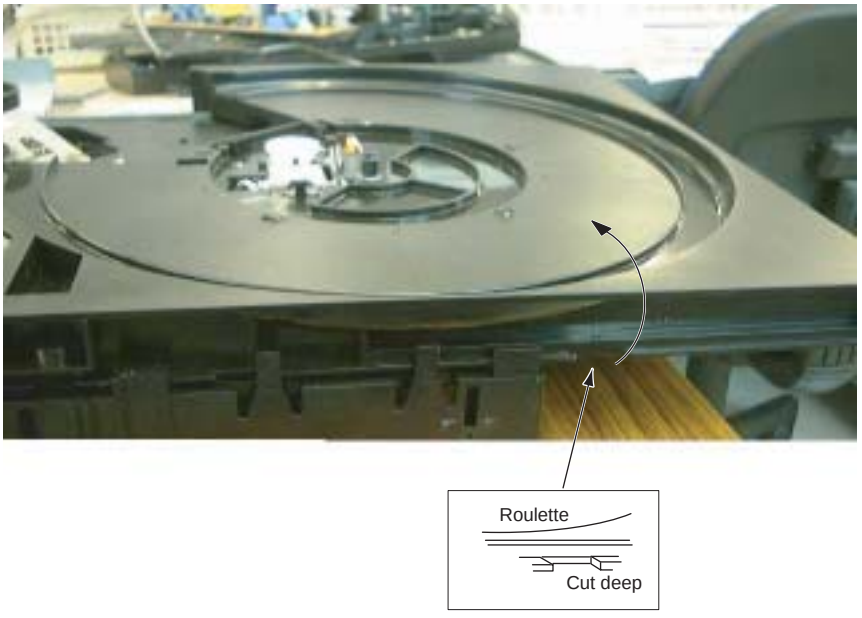


1. Remove the top cover with six screws.
2. Remove the tray.
3. Remove the roulette assembly.
4. Remove the roulette. (Roulette is removed as written below.)
5. Solder the LD output lands on the DVD optical pickup.
   Please perform right photo to reference.
6. Replace the pickup mechanism assembly etc. . After unsolder the laser diodes output lands.

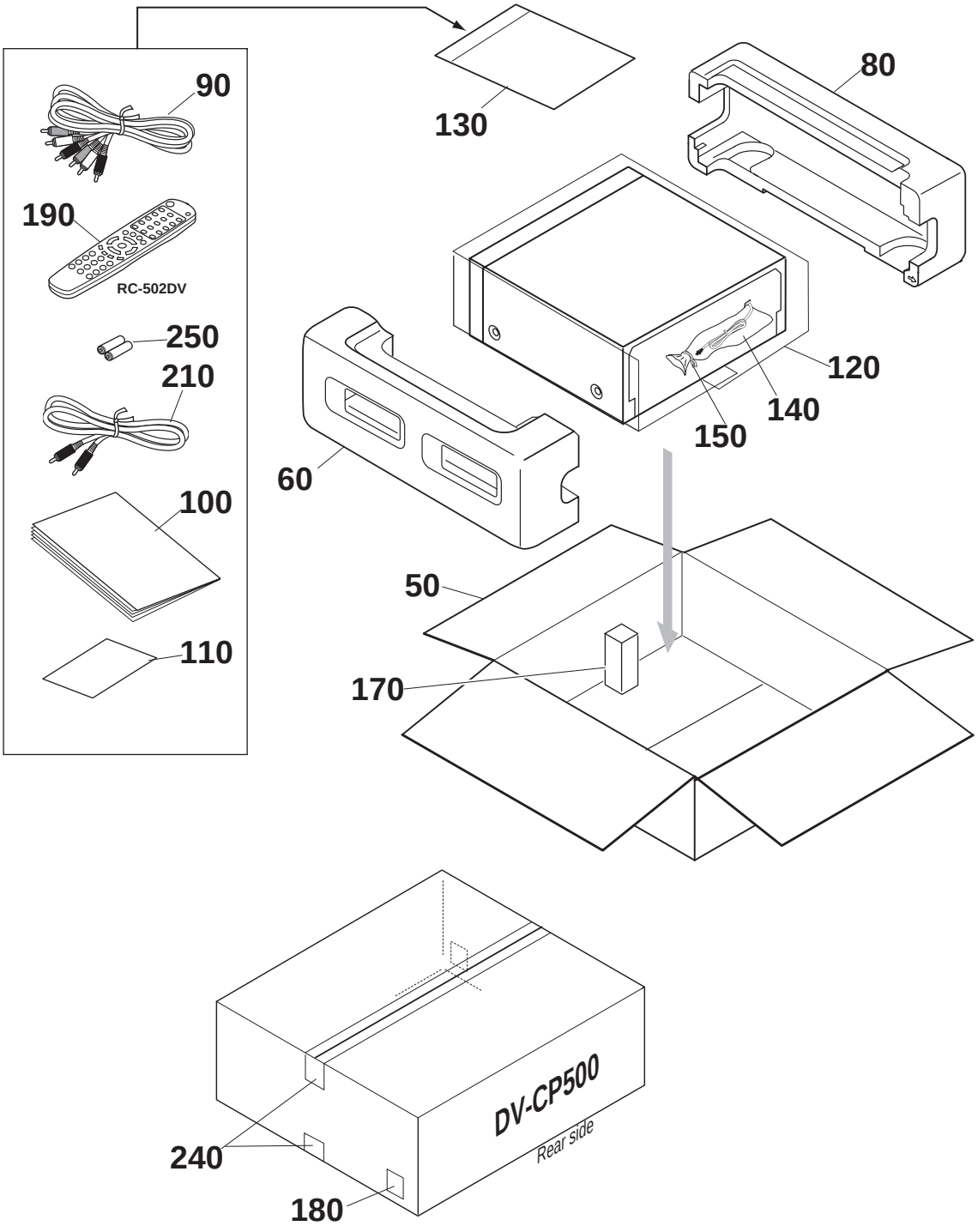


Remove the roulette

1. Pull out the tray.
2. Stops in the position (cut deeply).
3. Remove in the direction of arrow.
4. Reassembly is performed by 3 to 1.



PACKING VIEW



FW DOWNLOAD

Confirm the firmware

"CD PLAY" button and "DISC 3" button on the front panel
should be pressed at the same time. --------- Factory EEPROM reset.
Wattching the version of firmware in the FL tube.

When the name of the binaly file you wantto downloding is "dvcp5111.bin",
you may type "ttcmake cp500fw1" in thr DOS prompt.
└Space
Adifferent bin file requires a new data.

1. "TTCMAKE.EXE" file is downloaded to its own personal computer. (C-Drive)
2. "dvcp5111.bin" file is downloaded to its own personal computer. **Fig. 1**
(The same drive as 1.)

TTCMAKE.EXE : application file
dvcp5111.bin : Binaly file

3. Call the "ttcmake dvcp5111" in the DOS prompt.
4. Call the file name of "cp500" holder, and
"ttcmake dvcp5111" . **Fig. 2**
5. Created the "ENTRISE. TTC" **Fig. 3**
6. File created by 5. is copied to CD-R.

Caution: File format should be "ISO9660"

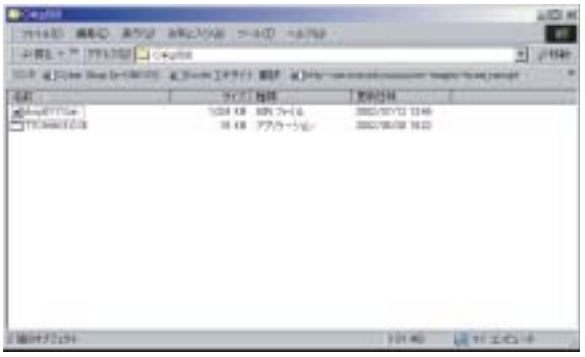


Fig. 1

C:¥>cd..
C:¥cd cp500
C:¥cp500>ttcmake dvcp5111

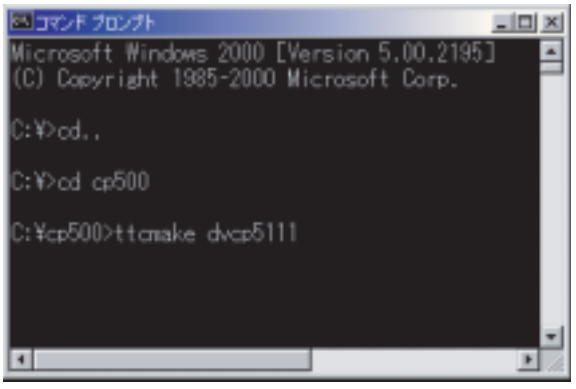


Fig. 2

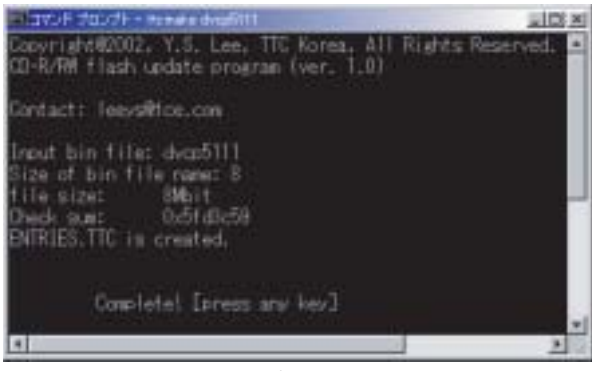

Copyright©2002, Y.S. Lee, TTC Korea, All Rights Reserved.
CD-R/RW flash update program (ver. 1.0)
Contact: leeys@ttc.com
Input bin file: dvcp5111
Size of bin file name: 8
file size: 8Mbit
Check sum: 0x5fd0c50
ENTRIES.TTC is created.
Complete! [press any key]

Fig. 3

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